Service manual dryers

Fisher & Paykel

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Features and technical specifications USA

	Market / Country	**USA**	**USA**	**USA**	**USA**
	BRAND	**Fisher and Paykel**	**Fisher and Paykel**	**Fisher and Paykel**	**Fisher and Paykel**
	ID	**ELECTRIC FULL FEATURED**	**ELECTRIC MID FEATURED**	**GAS FULL FEATURED**	**GAS MID FEATURED**
	F&P MODEL	**DE7027P1US**	**DE7027J1US**	**DG7027P1US**	**DG7027J1US**
	Generation	**0**	**0**	**0**	**0**
	Cabinet (in) / Color	27" / White	27" / White	27" / White	27" / White
WHOLE PRODUCT FEATURES					
	SENSORED CYCLES	Yes	Yes	Yes	Yes
	TIMED CYCLES	Yes	Yes	Yes	Yes
	CAPACITY (CuFt)	7	7	7	7
	STEAMED CYCLES	Yes	No	Yes	No
	FRONT PANEL	White	White	White	White
	END CAP	**Grey**	**Grey**	**Grey**	**Grey**
	SENSOR RODs	Yes	Yes	Yes	Yes
	RACK DRY	Yes	Yes	Yes	Yes
	DOOR ASSY	Current	Current	Current	Current
	OUTER RING	White	White	White	White
	REVERSABILITY IN DOOR	Yes	No	Yes	No
	TOP COVER	White	White	White	White
	CHESS SUPPORT	ABS	ABS	ABS	ABS
	GLASS COVER	Yes	No	Yes	No
	METAL COVER	No	Yes	No	Yes
	TOP SHIELD	Yes	Yes	Yes	Yes
	DRUM	SS	SS	SS	SS
	BAFFLES	White	White	White	White
	DRUM LIGHT	Yes	Yes	Yes	Yes
	REVERSING DRUM	Yes	No	Yes	No
	BLACK-OUT RECOVERY	Stand-by (user settings)	Stand-by (user settings)	Stand-by (user settings)	Stand-by (user settings)
	CONTROL PANEL	Touch	Touch	Touch	Touch
DRYING SYSTEM					
	TEMPERATURE SENSOR	Thermistor	Thermistor	Thermistor	Thermistor
TECH					
	COMBUSTIBLE	NA	NA	Gas LP	Gas LP
	POWER CORD	Yes	Yes	Yes	Yes
	VOLTAGE	120VAC/240VAC/60Hz 120VAC/208VAC/60Hz	120VAC/240VAC/60Hz 120VAC/208VAC/60Hz	120VAC/60Hz	120VAC/60Hz
	MAX CURRENT	30 Amps	30 Amps	15 Amps	15 Amps
	USER MANUAL LANGUAGE	English	English	English/**French**	English/**French**
APPEARANCE					
	KNOBs	1	1	1	1
	BACKSPLASH	Fisher and Paykel	Fisher and Paykel	Fisher and Paykel	Fisher and Paykel
	BACKSPLASH COLOR	White	White	White	White
	BRAND	Fisher and Paykel	Fisher and Paykel	Fisher and Paykel	Fisher and Paykel
	KNOB SELECTION	Encoder	Encoder	Encoder	Encoder
	KNOB APPEARANCE	SS/Rubber	SS/Rubber	SS/Rubber	SS/Rubber
	KNOB INDICATOR COLOR	Red	Red	Red	Red
	CABINET	White	White	White	White
	TOP COVER	White	White	White	White
	GLASS COVER	White	NA	White	NA
	METAL COVER	NA	White	NA	White
WEIGHT & DIMS					
	WEIGHT W/PACKAGE (kg/lbs)	56.00 kg. / 123.46 lbs.	56.00 kg. / 123.46 lbs.	56.00 kg. / 123.46 lbs.	56.00 kg. / 123.46 lbs.
	WEIGHT WO/PACKAGE (kg/lbs)	49.9 kg. / 110.01 lbs.	49.9 kg. / 110.01 lbs.	49.9 kg. / 110.01 lbs.	49.9 kg. / 110.01 lbs.
	GENERAL PRODUCT DIMENSIONS				
	WIDTH (cm/in)	68.25 cm / 26.87 in.	68.25 cm / 26.87 in.	68.25 cm / 26.87 in.	68.25 cm / 26.87 in.
	DEEP (cm/in)	72.6 cm / 26.61 in.	72.6 cm / 26.61 in.	72.6 cm / 26.61 in.	72.6 cm / 26.61 in.
	HEIGHT (cm/in)	108.70 cm / 42.80 in.	108.70 cm / 42.80 in.	108.70 cm / 42.80 in.	108.70 cm / 42.80 in.
	DIMENSIONS WITH PACKAGE				
	WIDTH (cm/in)	72.39 cm / 28.50 in.	72.39 cm / 28.50 in.	72.39 cm / 28.50 in.	72.39 cm / 28.50 in.
	DEEP (cm/in)	77.47 cm / 30.50 in.	77.47 cm / 30.50 in.	77.47 cm / 30.50 in.	77.47 cm / 30.50 in.
	HEIGHT (cm/in)	117.79 cm / 46.38 in.	117.79 cm / 46.38 in.	117.79 cm / 46.38 in.	117.79 cm / 46.38 in.

Features and technical specifications CANADA

	Market / Country	**Canada**	**Canada**
	BRAND	**Fisher and Paykel**	**Fisher and Paykel**
	ID	**ELECTRIC FULL FEATURED**	**ELECTRIC MID FEATURED**
	F&P MODEL	**DE7027P1CA**	**DE7027J1CA**
	Generation	**0**	**0**
	Cabinet (in) / Color	27" / White	27" / White
WHOLE PRODUCT FEATURES			
	SENSORED CYCLES	Yes	Yes
	TIMED CYCLES	Yes	Yes
	CAPACITY (CuFt)	7	7
	STEAMED CYCLES	Yes	No
	FRONT PANEL	White	White
	END CAP	**Grey**	**Grey**
	SENSOR RODs	Yes	Yes
	RACK DRY	Yes	Yes
	DOOR ASSY	Current	Current
	OUTER RING	White	White
	REVERSABILITY IN DOOR	Yes	No
	TOP COVER	White	White
	CHESS SUPPORT	ABS	ABS
	GLASS COVER	Yes	No
	METAL COVER	No	Yes
	TOP SHIELD	Yes	Yes
	DRUM	SS	SS
	BAFFLES	White	White
	DRUM LIGHT	Yes	Yes
	REVERSING DRUM	Yes	No
	BLACK-OUT RECOVERY	Stand-by (user settings)	Stand-by (user settings)
	CONTROL PANEL	Touch	Touch
DRYING SYSTEM			
	TEMPERATURE SENSOR	Thermistor	Thermistor
TECH			
	COMBUSTIBLE	NA	NA
	POWER CORD	Yes	Yes
	VOLTAGE	120VAC/240VAC/60Hz 120VAC/208VAC/60Hz	120VAC/240VAC/60Hz 120VAC/208VAC/60Hz
	MAX CURRENT	30 Amps	30 Amps
	USER MANUAL LANGUAGE	English/**French**	English/**French**
APPEARANCE			
	KNOBs		
	BACKSPLASH		
	BACKSPLASH COLOR		
	BRAND		
	KNOB SELECTION		
	KNOB APPEARANCE	SS/Rubber	SS/Rubber
	KNOB INDICATOR COLOR	Red	Red
	CABINET	White	White
	TOP COVER	White	White
	GLASS COVER	White	NA
	METAL COVER	NA	White
WEIGHT & DIMS			
	WEIGHT W/PACKAGE (kg/lbs)	56.00 kg. / 123.46 lbs.	56.00 kg. / 123.46 lbs.
	WEIGHT WO/PACKAGE (kg/lbs)	49.9 kg. / 110.01 lbs.	49.9 kg. / 110.01 lbs.
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	HEIGHT (cm/in)	108.70 cm / 42.80 in.	108.70 cm / 42.80 in.
	DIMENSIONS WITH PACKAGE		
	WIDTH (cm/in)	72.39 cm / 28.50 in.	72.39 cm / 28.50 in.
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	HEIGHT (cm/in)	117.79 cm / 46.38 in.	117.79 cm / 46.38 in.

⚠ WARNING! – Risk of fire

Clothes dryer installation must be performed by a qualified installer.

Install the clothes dryer according to the manufacturer's instructions and local codes.

DO NOT install the clothes dryer with flexible plastic venting materials. If flexible metal (foil-type) duct is installed, it must be identified by the dryer manufacturer as suitable for use with clothes dryers and installed in strict accordance with the instructions found on pages 26 to 38 of these installation instructions. Flexible venting materials are known to collapse, be easily crushed and trap lint. These conditions will obstruct dryer airflow and increase the risk of fire.

The dryer must be vented to the outdoors.

Use only rigid metal 4" (102 mm) diameter ductwork inside the dryer cabinet and use only UL-listed transition ducting between the dryer and the home duct.

Do not install or store this appliance in any location where it could be exposed to water and/or weather.

To reduce the risk of severe injury or death, follow all installation instructions.

SAVE THESE INSTRUCTIONS

Before you begin

Read the important safety instructions on the inside cover and on pages 3 – 6 before you start installing the dryer.

Check to make sure you have all the tools and parts necessary to correctly install this appliance.

Tools required:

- Adjustable wrench 10" (254 mm) × 2 (for gas connection).
- Flat-blade screwdriver.
- Slip joint pliers.
- Pipe wrench 8" (203 mm) (for gas connection).
- Phillips screwdriver.
- Drill with ⅛" (3 mm) drill bit (for bottom venting only).
- Caulking gun and compound (for installing new exhaust vent).
- Glasses.
- Gloves.
- Knife.
- Hacksaw.
- Spirit level.

Materials:

- 4" (102 mm) diameter rigid metal duct (recommended).
- 4" (102 mm) diameter UL-listed flexible metal duct (if needed).
- 4" (102 mm) diameter metal elbow(s).
- Flexible metal gas line connector (for gas connections only).
- Duct or spring clamps (2).
- Pipe joint compound (pipe dope or tape) for gas pipe connections, resistant to LP Propane, butane and natural gas (for gas connections only).
- Exhaust/vent hood.
- Duct tape.
- Soap solution for gas leak detection (for gas connections only).
- ¾" (19 mm) strain relief (electric connections only).
- Dryer power cord kit (power cord is not supplied with United States models).
  Requirement: UL-rated 120/240 V, 30 amp with 3 or 4 prongs. Identify the plug type needed from the existing house receptacle before purchasing. Length of cord must be at least 5 feet (1.5 m) long.

To the installer

Read these instructions completely and carefully.

- These instructions must be left with the home owner for future reference.
- Correct installation is the responsibility of the installer.
- Installation of this appliance must be performed by a qualified installer.
- The dryer **must** be exhausted to the outdoors.
- Remove the door from an old dryer before it is removed and discarded.
- The wiring diagram and service information can be found in the control console.
- The Warranty does not cover product failure as a result of improper installation.
- The dryer must be installed in a location where the temperature is above 50°F (10°C) to ensure suitable operation of the dryer control system.
- UL-listed duct material must be used. Discard existing plastic or metal foil duct and replace with UL-listed duct material.
- Observe all governing codes and ordinances.
- Follow the installation instructions carefully.

Important!

- ***Save these instructions for local electrical inspector's use.***
- ***Observe all governing codes and ordinances.***
- ***Install the clothes dryer according to the manufacturer's instructions and local codes.***

Unpacking

To ensure the best performance from the dryer, please follow the instructions below.

⚠ WARNING!

Excess Weight Hazard

Use two or more people to move and install the dryer.

Failure to do so can result in back or other injury.

Important!

Only remove the packaging at the customer's premises.
This will ensure the appliance arrives in pristine condition and reduces the risk of damage during transportation to the customer's home.

1. Remove packaging
Remove all of the outer packaging. Dispose of unwanted packaging thoughtfully.

2. Discard packing material from around dryer feet
Tilt the dryer sideways and remove the foam shipping pads by pulling at the sides and breaking them away from the dryer feet. Be sure to remove all the foam pieces before continuing with installation.

3. Drying rack
Open the door. Remove the tape holding the drying rack in place. Remove the rack and remove protective tape from 'legs' of rack.

4. Accessories
Remove the accessories from inside the dryer.

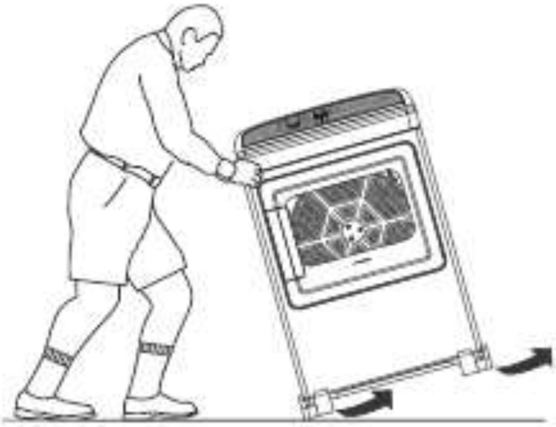


Fig.2 Unpacking your dryer correctly

Location requirements

⚠ WARNING!

Explosion Hazard

Keep flammable materials and vapors, such as gasoline, away from the dryer.

Place dryer at least 18" (460 mm) above the floor for a garage installation.

Failure to do so can result in death, explosion, fire, or burns.

The dryer must be installed or stored in an area which is not exposed to water or weather.

It is extremely important that the dryer is installed in a well ventilated location. This dryer must exhaust air outdoors. Do not install the dryer in any room or closet which does not permit the free flow of replacement air. The free area of any opening for the introduction of outside air shall not be less than twice the area of the dryer exhaust outlet.

The area in which the dryer is located must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids. A dryer produces combustible lint so the area around the dryer must be cleaned regularly to keep it free of lint.

Make sure dryer is in a suitable location for installation.
Consider installing the dryer before the washing machine in a side by side installation, this will allow better access to electrical and exhaust connections.

Minimum clearance required other than alcove or closet installation

Allow sufficient room behind the dryer for the exhaust. The air intake is at the rear of the dryer. Ensure that there is a sufficient air passage on each side of the dryer for intake air.

The minimum clearance to combustible surfaces and for air openings are: 1" (25 mm) clearance both sides, 2" (51 mm) clearance at the front, and 1" (25 mm) clearance at the rear, or 5" (127 mm) clearance if the dryer exhaust duct is at the rear. Consideration **must** also be given to provide adequate clearance for proper operation and service.

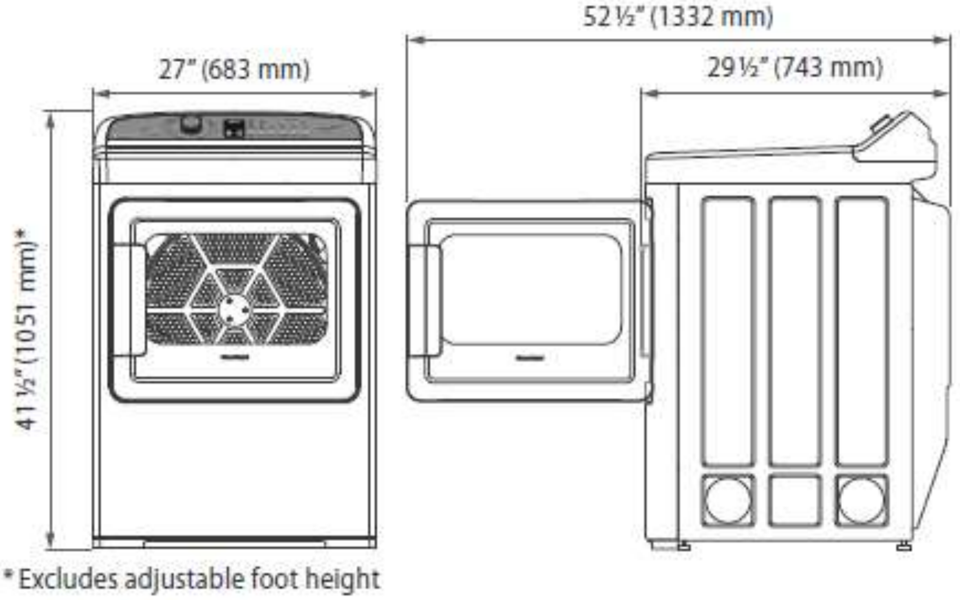


Fig.3 AeroCare dimensions

Requirements for alcove or closet installation

Your dryer is approved for installation in an alcove or closet (as specified on the dryer back).

⚠ WARNING!

When installing a dryer in a closet alcove it MUST be exhausted to the outdoors. No other fuel burning appliance can be installed in the same closet or alcove.

The total ventilation area must be a minimum of 60 sq. in. (387 cm²) of open area equally distributed. If the closet contains both a washer and a dryer, doors must contain a minimum of 120 sq. in. (774 cm²) of open area equally distributed. The openings must never be obstructed (a louvered door with the minimum air opening is acceptable). Minimum installation clearances are required but more clearance is recommended.

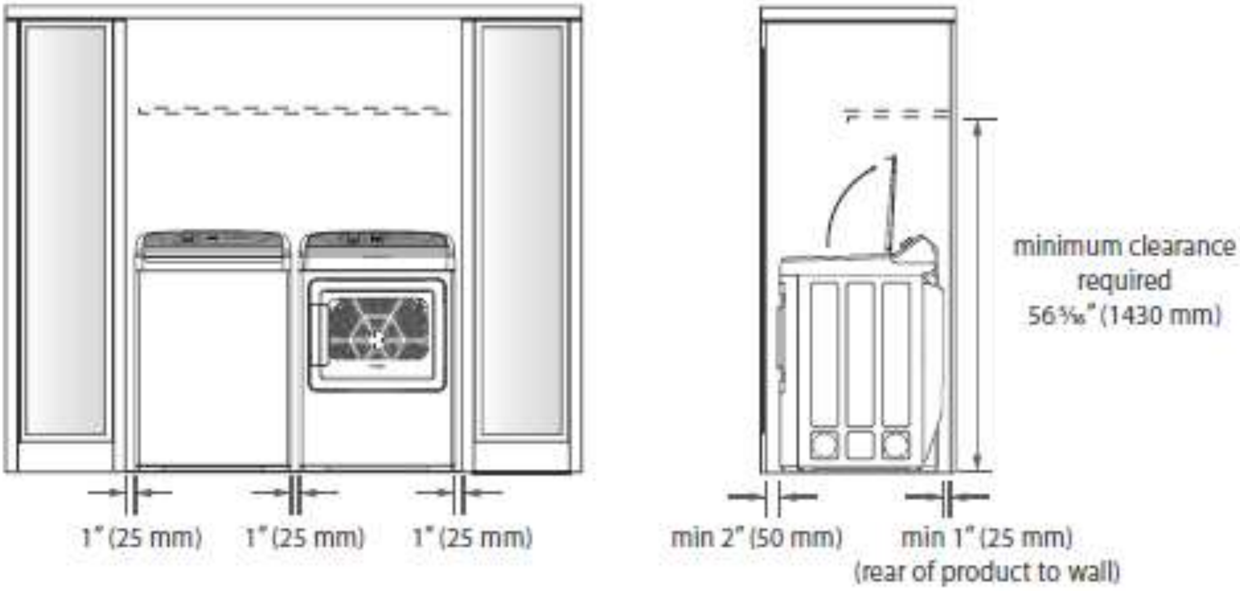

minimum clearance required 56⁵⁄₁₆" (1430 mm)
1" (25 mm)
1" (25 mm)
1" (25 mm)
min 2" (50 mm)
min 1" (25 mm) (rear of product to wall)

Fig.4 Minimum clearances

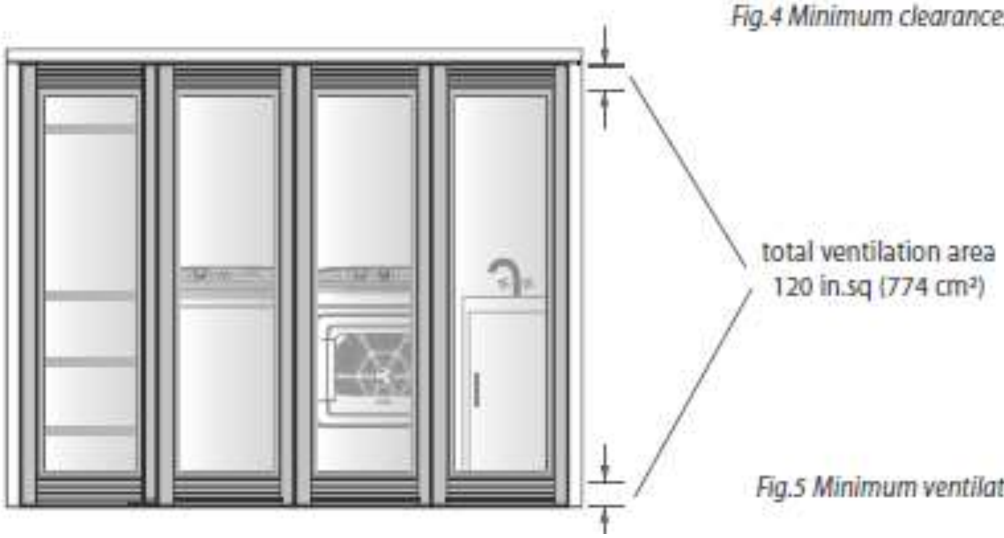


Fig.5 Minimum ventilation

Requirements for alcove or closet installation continued

- The closet should be vented to the outdoors to prevent gas pocketing in case of a gas leak in the supply line.
- No other fuel-burning appliance shall be installed in the same closet with the dryer (gas models only).

Note: when the exhaust duct is located at the rear of the dryer, minimum clearance required from the wall is 5" (127 mm).

Bathroom or bedroom installation
The dryer MUST be vented to the outdoors. See "Exhausting the dryer" (page 26).

Mobile or manufactured home installation

Installation is required to comply with the Manufactured Home Construction & Safety Standard, title 24 CFR, part 3280. If or when such standard is not applicable, installation must comply with the American National Standard for Mobile Home, ANSI/NFPA No. 501.

- The dryer MUST be vented to the outdoors with the termination securely fastened to the mobile home structure.
- Exhaust ducts MUST be securely fastened to a non-combustible portion of the mobile home structure.
- The exhaust MUST NOT be terminated beneath a mobile or manufactured home.
- The exhaust duct material MUST BE METAL.
- The exhaust duct MUST NOT be connected to any other duct, vent, or chimney, or be vented into a wall, ceiling or concealed space of a building.
- Do not use sheet metal screws or other fastening devices which extend into the interior of the exhaust vent.

In addition to the above, for gas dryer models:

- Kit 14-D346-33 MUST be used to attach the dryer securely to the structure.
- Provide an opening with a free area of at least 25 sq. in. (161 cm^2) for introduction of outside air into the dryer room.

Residential garage installation

Dryers installed in residential garages must be elevated 18" (460 mm) above the floor.

The installation must conform with local codes or, in the absence of local codes, with the National Electrical Code, NFPA NO. 70 (for electric dryers) or National Fuel Gas Code, ANSI Z223.1/NFPA54 (for gas dryers) in the United States; and the Canadian Electrical Code CSA C22.1 (for electric dryers) or Natural Gas and Propane Installation Code, CSA B149.1 (for gas dryers), in Canada.

Connecting a gas dryer (skip for electric dryer)

Refer to page 7 for tools required.

Note: installation and service of this dryer must be performed by a qualified installer, service agency or the gas supplier.

Gas supply and installation requirements

In the Commonwealth of Massachusetts:

- Installation of the dryer must be completed by a plumber or gas fitter licensed by the state.
- When using ball-type gas shut-off valves, the t-handle type shall be used.
- If using a flexible gas connector, this must not exceed a length of 3 feet in total.

⚠ WARNING!

Explosion Hazard

Installations must be performed by a qualified or licensed contractor, plumber, or gasfitter qualified or licensed by the state, province, or region where this appliance is being installed.

Use a new AGA or CSA approved gas supply line.

Install a shut-off valve in an accessible place.

Only use a gas shut-off valve approved for use within the state, province, or region where this appliance is being installed.

Securely tighten all gas connections.

If connecting to LP Gas, have a qualified person make sure gas pressure does not exceed 13" (330 mm) water column.

Failure to follow these instructions can result in death, explosion, or fire.

⚠ WARNING!

To Reduce the Risk of Fire, Electrical Shock and Personal Injury:

Before connecting the dryer turn off circuit breaker(s) or remove the dryer's circuit fuses at its electrical box. Ensure the power cord is unplugged from the wall socket.

Ensure the gas shut off valve in the supply line is OFF.

Use only new ducting materials. Remove and discard old flexible gas connector and duct material.

Gas type

This gas dryer is equipped with a valve and burner assembly for use only with natural gas. Your local service organization can convert this dryer for use with propane (LP) gas, using conversion kit WC254C1258A001.

Important!

All conversions must be completed by correctly trained and qualified personnel, in accordance with all local codes and ordinances.

Pressure testing

- The dryer must be disconnected from the gas supply piping system during any pressure testing of the system at a pressure greater than 0.5 psi (3.5 kPa).
- The dryer must be isolated from the gas supply piping system by closing the equipment shut-off valve during any pressure testing of the gas supply piping of test pressure equal to or less than 0.5 psi (3.5 kPa).

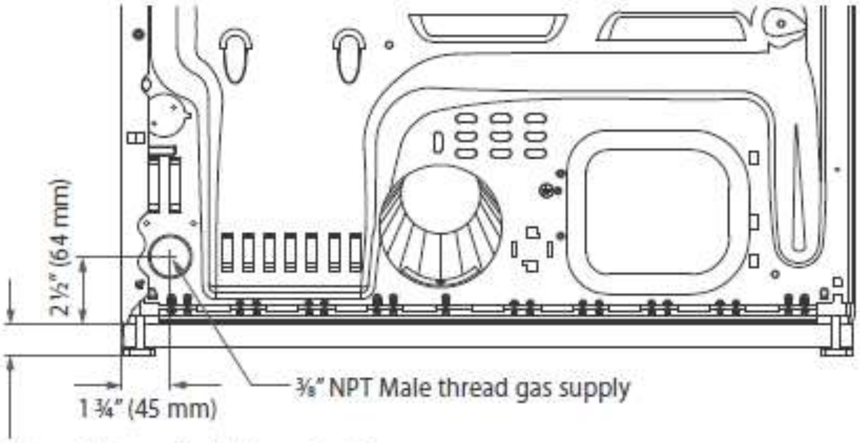
Gas supply

- A ⅛" National Pipe Taper (NPT) plugged tapping must be installed immediately upstream of the gas supply connection to the dryer. This must be accessible for test gauge connection. Please contact your local gas utility if you have questions regarding the installation of the plugged tapping.
- The gas supply line is to be ½" (12.7 mm) rigid pipe. The line must be equipped with an accessible shut-off which is within 6 feet (1.8 m) of the dryer AND in the same room as the appliance.
- Pipe thread compound appropriate for Natural or Propane (LP) gas must be used.
- New flexible metal gas line connector should be used to connect the dryer and gas supply.

Elevation adjustment

- The input ratings of gas operated clothes dryers are based on their operation at sea level, and need not be adjusted for operation at or below 2000 ft. (610 m) elevation. For operation at elevations above 2000 feet (610 m), input ratings should be reduced at a rate of four percent per 1000 feet (305 m) elevation above sea level.
- Installation must conform to all local codes and ordinances. In the absence of local codes and/or ordinances, installation shall conform to the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

Gas supply connection



Note: add to vertical dimension the distance between cabinet bottom to floor

Fig.6 Gas connection at rear of dryer

Connecting the dryer to the gas supply

Gas connection parts

Ensure you have the following parts before installing the dryer.

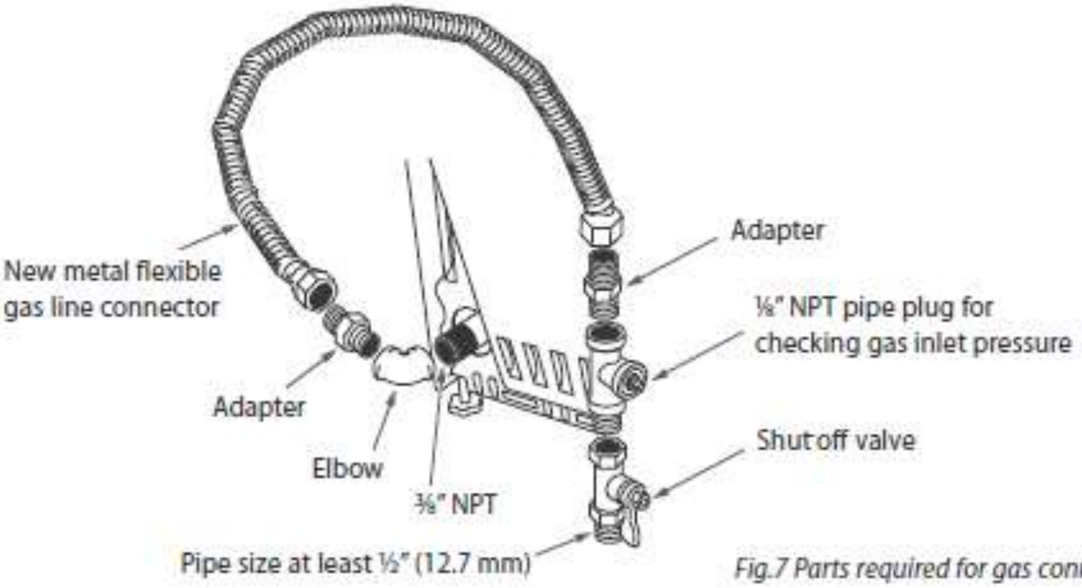
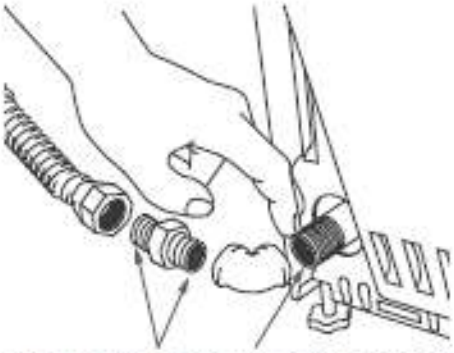

New metal flexible gas line connector
Adapter
Elbow
⅜" NPT
Pipe size at least ½" (12.7 mm)
Adapter
⅛" NPT pipe plug for checking gas inlet pressure
Shut off valve

Fig.7 Parts required for gas connection

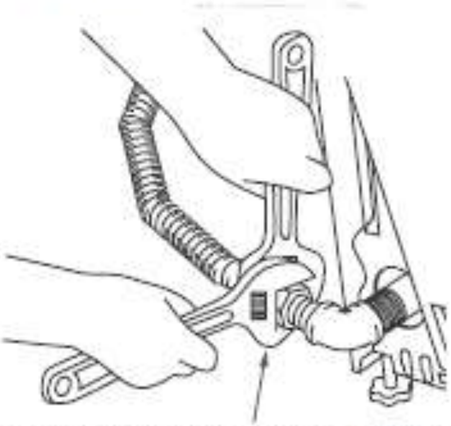
Connecting to dryer

- Install a female ⅜" NPT elbow at the gas inlet end of the dryer.
- Attach a ⅜" flare union adapter to the female NPT elbow.



Apply pipe compound to the adapter and dryer gas inlet threads

Fig.8 Attaching elbow and adapter



Using two adjustable wrenches tighten the flexible gas line connection

Fig.9 Tighten connections

Important!

Securely hold on to the end of the dryer gas inlet with a pipe wrench to help prevent twisting the inlet.

Connecting to supply

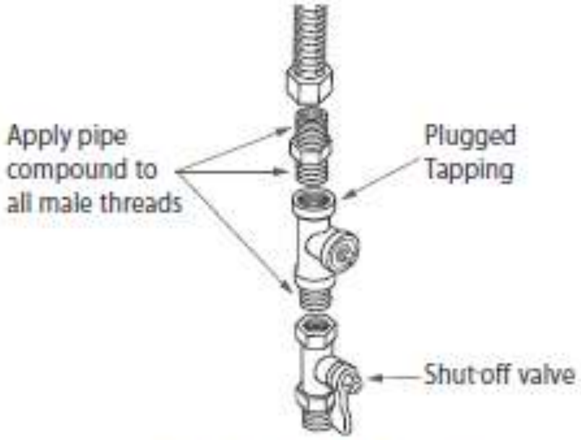


Fig.10 Connecting supply

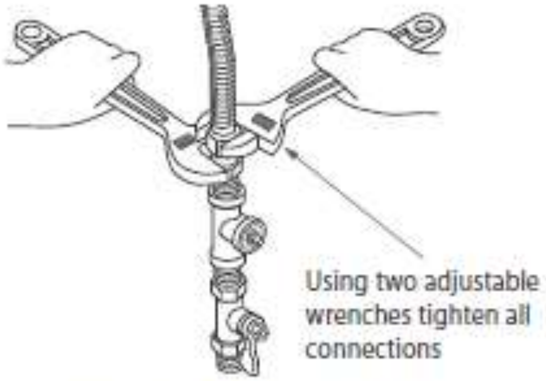

Using two adjustable wrenches tighten all connections

Fig.11 Tightening supply connections

Important!

Do not over tighten the connections.

Test for gas leaks

⚠ WARNING!

NEVER use an open flame to test for gas leaks.

- Turn on the gas (open the gas shut off valve).
- All connections should be checked for leaks with a soapy, or equivalent solution. Apply a soap (or equivalent) solution to the connection points. If leaks are found, close the shut-off valve, re-tighten the joint, then repeat the test.

Note: Do not use a solution that contains ammonia. This may cause damage to the brass fittings.

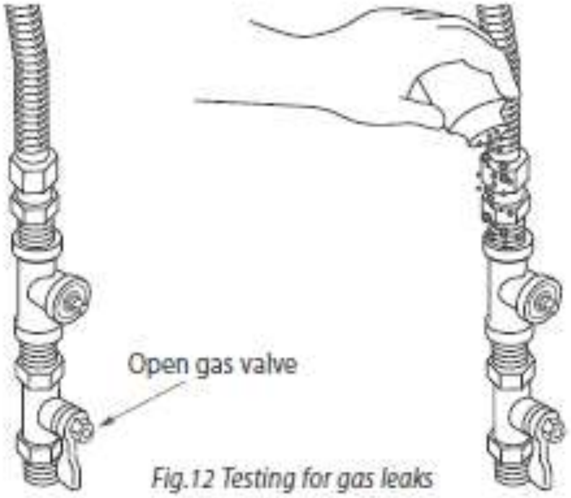


Fig.12 Testing for gas leaks

⚠ WARNING!

Fire and Poisoning Hazard

Gas leaks cannot always be detected by the sense of smell.

Use of an approved UL or CSA gas detector is recommended.

If a gas leak is detected follow the "What to do if you smell gas" instructions, stated on the inside font cover of this user guide.

Electrical connection information for gas dryers

⚠ WARNING!

Electrical Shock Hazard

Make sure appliance is wired or plugged into a grounded outlet.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the appliance is properly grounded.

Do not modify the plug if it will not fit the outlet.

Have the proper outlet installed by a qualified electrician.

Do not use an adaptor.

Do not use an extension cord.

Failure to follow these instructions can result in death, fire or electrical shock.

The appliance must be electrically grounded in accordance with all local codes and ordinances. In the absence of local codes, the dryer must be electrically grounded in accordance with the National Electrical Code, ANSI/NFPA NO. 70, or the Canadian Electrical Code, CSA C22.1.

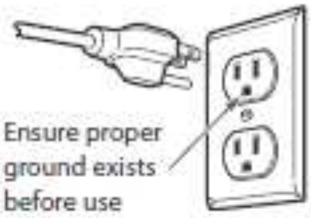
Electrical requirements for gas dryers

The power supply must be 120V, 60Hz, and connected to a properly grounded branch circuit, which is protected by a 15 or 20 amp circuit breaker, or a time-delay fuse.

If the electrical supply provided does not meet specifications outlined above, the installation of an approved outlet by a licensed electrician is recommended.

Important!

The dryer is supplied with a three-prong (grounding) plug for your protection against electric shock. The plug should be plugged directly into a correctly grounded three prong power socket. DO NOT cut or remove the grounding terminal from this plug.



Ensure proper ground exists before use.

If local codes permit, an external ground wire (not provided), which meets local codes, may be added by attaching to the green ground screw on the rear of the dryer, and to a grounded metal cold water pipe or other established ground.

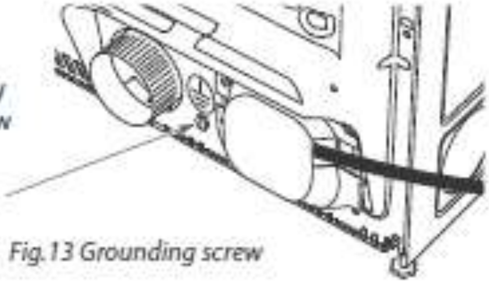


Fig.13 Grounding screw

Connecting an electric dryer (skip for gas dryers) – in the United States only

Refer to page 7 for tools required.

Electrical requirements (electric models only)

⚠ WARNING!

To reduce the risk of fire, electrical shock & personal injury:

The appliance must be correctly grounded electrically, in accordance with all local codes and ordinances. In the absence of these, the appliance shall be grounded in accordance with the National Electrical Code ANSI/NFPA No. 70.

Before connecting the dryer, turn off the circuit breaker(s) or remove the dryer's circuit fuses at its electrical box. Ensure the power cord is unplugged from the wall outlet.

DO NOT leave the cover off the terminal block.

Never use an extension cord or adapter plug with the dryer.

Use only new ducting materials. Remove and discard old duct material.

⚠ WARNING!

Electric Shock Hazard

Use a new UL/CSA-listed 30-ampere power cord.

Use a UL-listed strain relief.

Disconnect power before making electrical connections.

Connect neutral wire (white or center wire) to center terminal.

On all four wire installations remove the grounding link and connect the ground wire to the green ground connecting screw.

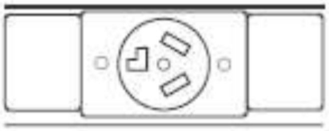
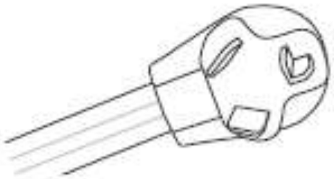
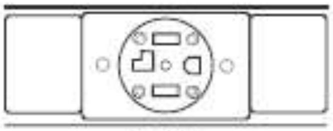
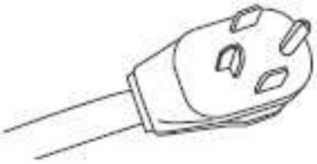
Connect remaining two supply wires to remaining two terminals.

Securely tighten all electrical connections.

Failure to do so can result in death, fire, or electrical shock.

Note: the wiring diagram is located in the control console.

The dryer must be plugged into or connected to an individual branch circuit, protected by the correct time delay fuses or circuit breakers. The power supply must be a 3- or 4-wire, single phase, 120/240 V, 60 Hz, 30 amp circuit.

If your outlet looks like this	Choose this power supply cord
 3-wire (NEMA type 10-30R)	 (See 3-wire connection)
 4-wire (NEMA type 14-30R)	 (See 4-wire connection)

- If a power cord is used, this must be plugged into a 30 amp socket only.
- The power cord is NOT supplied with electric model dryers in the United States.

Contact a licensed electrician if the electricity supply does not meet the required specifications.

Grounding instructions

This dryer MUST be connected to a grounded metal, permanent wiring system. Alternatively, an equipment grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal on the dryer.

⚠ WARNING!

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service representative if you are in doubt as to whether the appliance is properly grounded.

Connecting the dryer using 4-wire connection (must be used for mobile home installation)
Note: the National Electrical Code requires that new constructions use a 4-wire connection to an electric dryer (effective as of January 1, 1996). Where local codes do not permit grounding through the neutral, a 4-wire cord must also be used.

Important!

New constructions must NOT use a 3-wire connection.

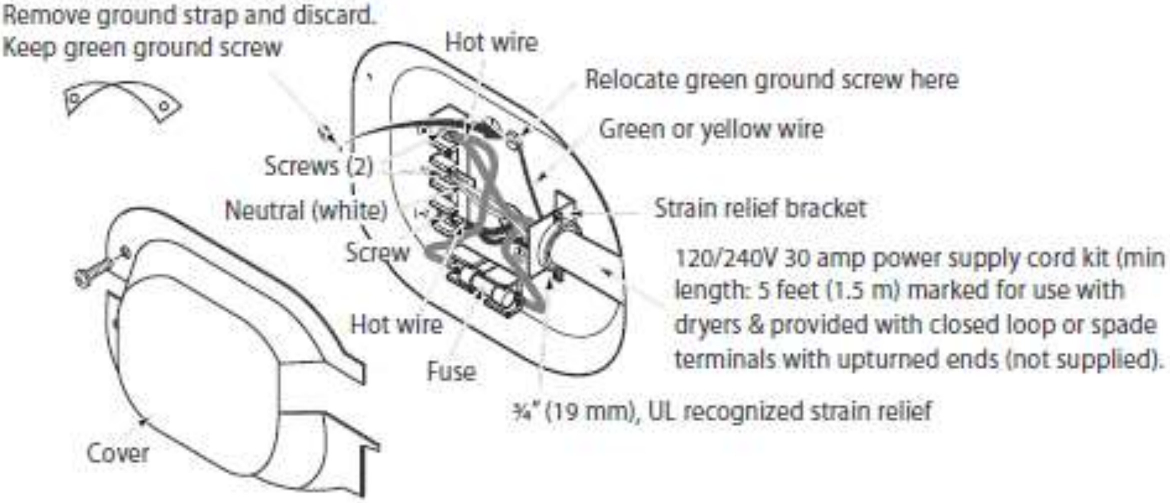

Remove ground strap and discard.
Keep green ground screw
Hot wire
Relocate green ground screw here
Green or yellow wire
Screws (2)
Neutral (white)
Strain relief bracket
Screw
120/240V 30 amp power supply cord kit (min length: 5 feet (1.5 m) marked for use with dryers & provided with closed loop or spade terminals with upturned ends (not supplied).
Hot wire
Fuse
¾" (19 mm), UL recognized strain relief
Cover

Fig.14 4-wire connections

1. Turn off the circuit breaker(s) (30 amp) or remove the dryer's circuit fuse at the electrical box.
2. Ensure the dryer cord is unplugged from the wall outlet.
3. Locate and remove the power cord cover at the lower rear of the dryer.
4. Remove and discard the ground strap. Retain the green ground screw for later relocation (Step 7).
5. Install a ¾" (19 mm) UL-recognized strain relief to the entry hole for the power cord. Move the power cord through the strain relief.
6. Connect the power cord according to the following:
   - a Connect the two hot lines to the outer screws of the terminal block (labelled L1 and L2).
   - b Connect the neutral (white) line to the center of the terminal block (labelled N).
7. Use the green ground screw to attach the ground wire of the power cord (ie relocate the green ground screw to the hole above strain relief bracket).
8. Tighten all three terminal block screws completely.
9. Correctly secure the power cord to the strain relief.
10. Replace the power cord cover.

⚠ WARNING!

NEVER leave the power cord cover off the terminal block.

Connecting the dryer using 3-wire connection

Important!

- ***DO NOT use in Canada.***
- ***DO NOT use for Mobile home installations, on new constructions, or on recreational vehicles.***
- ***NOT for use in areas where local codes prohibit grounding through the neutral conduction.***

If required by local codes, install an external ground (not provided) to grounded metal, a cold water pipe or other established ground as determined by a qualified electrician.

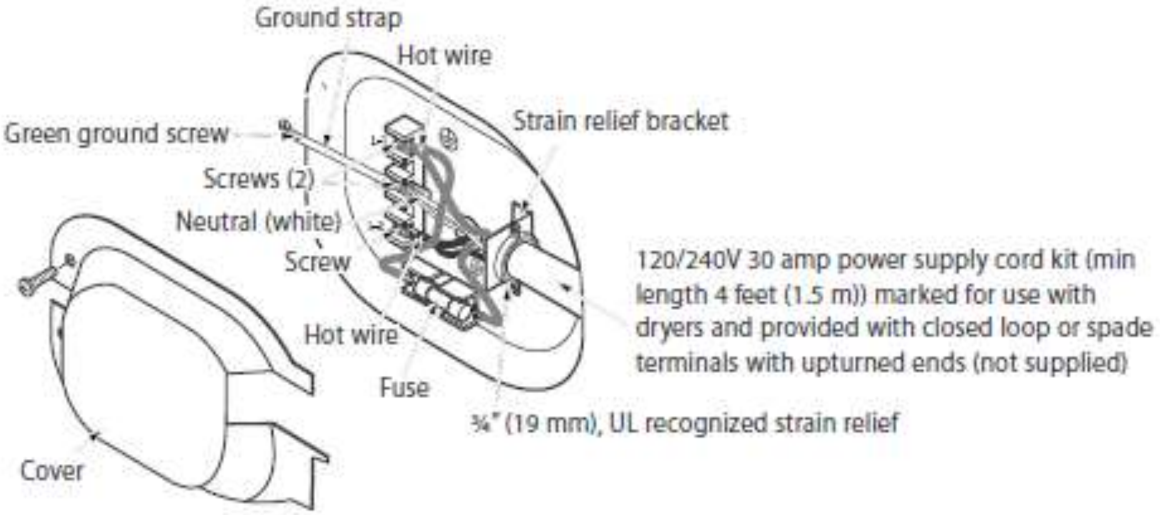

Ground strap
Hot wire
Strain relief bracket
Green ground screw
Screws (2)
Neutral (white)
Screw
120/240V 30 amp power supply cord kit (min length 4 feet (1.5 m)) marked for use with dryers and provided with closed loop or spade terminals with upturned ends (not supplied)
Hot wire
Fuse
¾" (19 mm), UL recognized strain relief
Cover

Fig.15 3-wire connections

1. Turn off the circuit breaker(s) (30 amp) or remove the dryer's circuit fuse at the electrical box.
2. Ensure the dryer cord is unplugged from the wall outlet.
3. Locate and remove the power cord cover at the lower rear of the dryer.
4. Install a ¾" (19 mm) UL-recognized strain relief to the entry hole for the power cord. Move the power cord through the strain relief.
5. Connect the power cord according to the following:
   - a Connect the two hot lines to the outer screws of the terminal block (labelled L1 and L2).
   - b Connect the neutral (white) line to the center of the terminal block (labelled N).
6. Ensure the ground strap is connected to neutral (center) terminal of block, and to the green ground screw on located on the cabinet rear.
7. Tighten all three terminal block screws completely.
8. Correctly secure the power cord to the strain relief.
9. Replace the power cord cover.

⚠ WARNING!

NEVER leave the power cord cover off the terminal block.

Connecting an electric dryer (skip for gas dryers) – in Canada only

Electrical requirements (electric models only)

⚠ WARNING!

Electric Shock Hazard

Plug appliance into grounded 4 prong outlet.

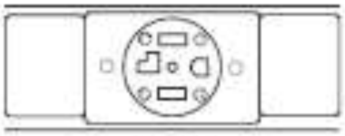
Failure to do so can result in death or electric shock.

Note: the wiring diagram is located in the control console.

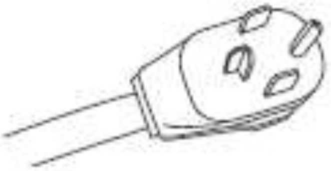
It is your responsibility to:

- Contact a qualified electrical installer.
- Ensure the electrical connection is adequate and conforms with Canadian Electrical Code, C22.1 and all local code requirements.
- Plug the dryer into, or connect the dryer to an individual branch circuit, which is protected by the correct time delay fuses or circuit breakers. The power supply must be a 4-wire, single phase, 120/240 V, 60Hz, 30 amp circuit.

This dryer is supplied with a CSA approved power cord (5 feet (1.52 m) in length, intended for plugging into a 14-30R wall outlet. Ensure the outlet is within reach of the dryer's final location.



4-wire
(NEMA type 14-30R)



A replacement power cord is available, if required. Use of part number 248C1014G001 (240 V cord set) is recommended. Contact Fisher & Paykel Customer Care (refer to page 84).

Grounding instructions

This dryer MUST be connected to a grounded metal, permanent wiring system.

⚠ WARNING!

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service representative if you are in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the dryer.

Exhausting the dryer

Refer to page 7 for tools required.

⚠ WARNING!

Fire Hazard

The dryer must be vented to the outdoors.

Use rigid or thick wall flexible metal exhaust duct only.

Do not use a plastic exhaust duct.

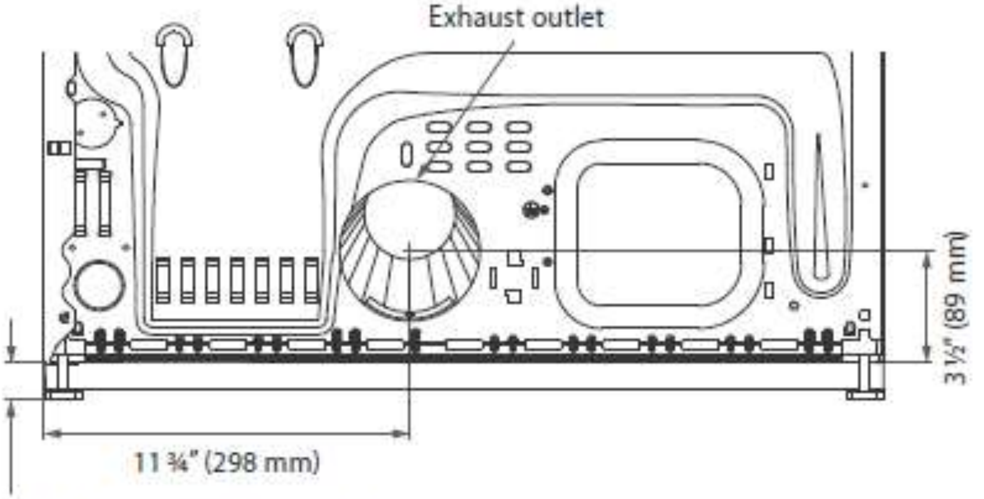
Do not use a metal foil exhaust duct.

Failure to follow these instructions can result in death or fire.

- This dryer must be vented to the outdoors. This will prevent the build up of lint and moisture in the room in which it is located and reduce the risk of fire.
- Use only 4" (102 mm) rigid metal ducting material for the home exhaust duct.
- Use only 4" (102 mm) rigid metal or UL-listed flexible metal (semi-rigid or foil-type) duct material to connect the appliance to the home exhaust duct. The ducting must be installed according to the instructions found in the section "Connecting the dryer to the house vent" (page 29).
- The dryer must not under any circumstances be exhausted into a chimney, a wall, a ceiling, gas vent, crawl space, attic, under an enclosed floor, or into any concealed space of a building.
- Never vent the dryer into a common duct with an exhaust system originating from a kitchen. The combination of grease and lint creates a potential fire hazard.
- Ducting must be kept as short in length and as straight as possible. Ducts can accumulate lint and create a potential fire hazard. Do not exceed the maximum exhaust duct lengths stated later in these installation instructions (page 33).
- Never install a screen in or over the dryers exhaust duct. The screen will cause lint to accumulate, creating a potential fire hazard.
- Use duct tape to secure joints in the ducting. Do not use screws as these will extend into the duct system, accumulate lint and create a potential fire hazard.
- Never obstruct incoming or exhausted air.
- Ensure access is provided for inspection and cleaning of the exhaust. This is particularly important at turns and joints. The exhaust system shall be inspected and cleaned annually.
- The dryer is set up for rear exhausting. If space available for installation is limited, the dryer can be vented directly from the sides or bottom of the cabinet. Refer to pages 35 to 38.

Dimensions

Exhaust outlet location



Note: add to vertical dimension the distance between cabinet bottom to floor

Fig. 16 Exhaust outlet dimensions

Before you start

- If required, remove and discard of all existing plastic or metal foil duct. Replace this with UL-listed duct material.
- Check for and remove any lint from the vent opening in the wall.
- Ensure the exhaust hood damper moves freely.

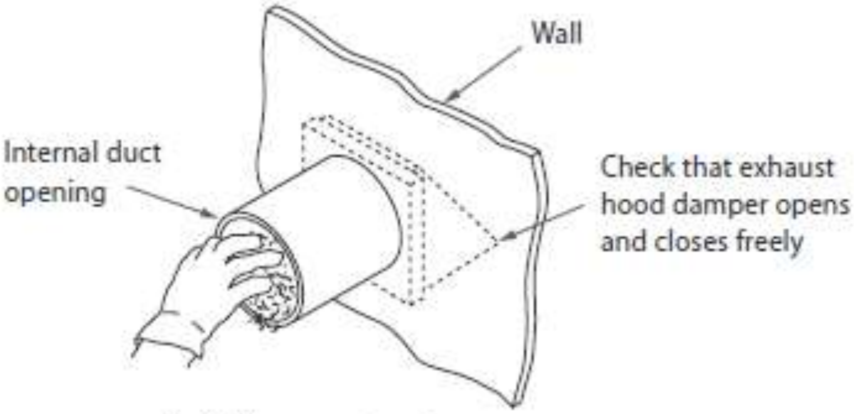

Wall
Internal duct opening
Check that exhaust hood damper opens and closes freely

Fig. 17 House vent opening

Exhaust system setup

Hood or wall cap

- Ensure the exhaust duct ends with a vent hood with a swing out damper to prevent back drafts and entry of wildlife.
- Ensure there is minimal resistance to the exhaust airflow. The structure should also require little or no maintenance to prevent clogging.
- Never place a screen in or over the duct.
- The vent hood should have at least 12" (305 mm) clearance between the bottom of the hood and the ground or other obstruction.
- The hood or wall cap should point downward.

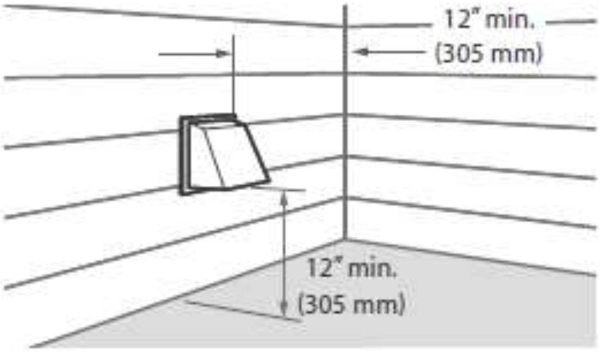


Fig.18 Exhaust hood installation

Separation of turns

- Separate all turns by at least 4 feet (1.2 m) of straight ducting (including the distance between the last turn and the wall cap) to ensure the best performance of the dryer.

Turns other than 90°

- One turn of 45° or less may be ignored.
- Two 45° turns are to be considered equal to one 90° turn.
- Each turn greater than 45° should be considered as equal to one 90° turn.

Important!

- ***Choose a route that will provide the straightest and most direct path to the outdoors. Plan the installation to use the fewest number of elbows and turns as possible.***
- ***When using elbows (rigid duct) or making turns (thick wall flexible metal duct), allow as much room as possible. Bend thick wall flexible metal duct gradually to avoid kinking, and avoid 90° turns using this material.***

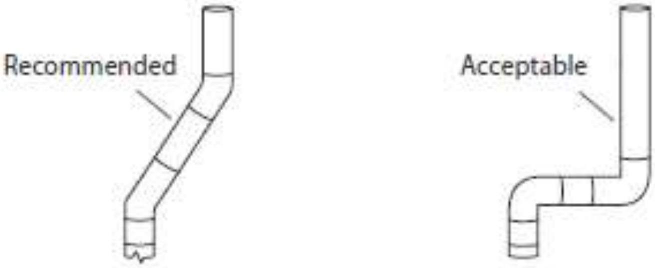


Fig.19 Duct configurations

Sealing of joints

- All joints must be tightly sealed to avoid leaks.
- The male end of each section of duct must be installed away from the dryer.
- Do not use screws or fasteners that extend into the duct to secure the joint as lint will accumulate around these, creating a potential fire hazard.
- Joints should be made air- and moisture-tight by securing the overlapped joints with duct tape, or aluminum tape.
- Horizontal duct runs should slope down towards the outdoors ¼" (6 mm) per foot.

Insulation

- Ducting that is directed through an unheated area or is near air conditioning should be insulated in order to reduce condensation and lint build-up.

Connecting the dryer to the house vent

Rigid metal duct

- The use of a rigid metal ducting is recommended for best drying performance.
- The risk of crushing and kinking of the duct is reduced when using this duct material.

UL-listed flexible metal (semi-rigid) transition duct

- If rigid metal duct is not appropriate, a UL-approved flexible metal (semi-rigid) duct material can be used (kit WC572D559P006).
- Do not install flexible metal duct in walls, ceilings, floors or other enclosed spaces.
- Flexible metal duct should not exceed 8 feet (2.4 m) in total.
- Installing elbows at both the dryer and the wall is highly recommended. An elbow allows the dryer to be positioned close to the wall without kinking and/or crushing the transition duct, and maximizes the performance of the dryer.
- Do not rest the ducting on sharp materials and objects.

UL-listed flexible metal (foil-type) transition duct

- Connecting the dryer to the house vent using flexible metal (foil-type) duct maybe required in some installations. A UL-listed flexible metal (foil-type) duct can ONLY be used where:
  - rigid metal or flexible metal (semi-rigid) ducting cannot be used, AND
  - a 4" (102 mm) diameter can be maintained throughout the entire length of the transition duct.

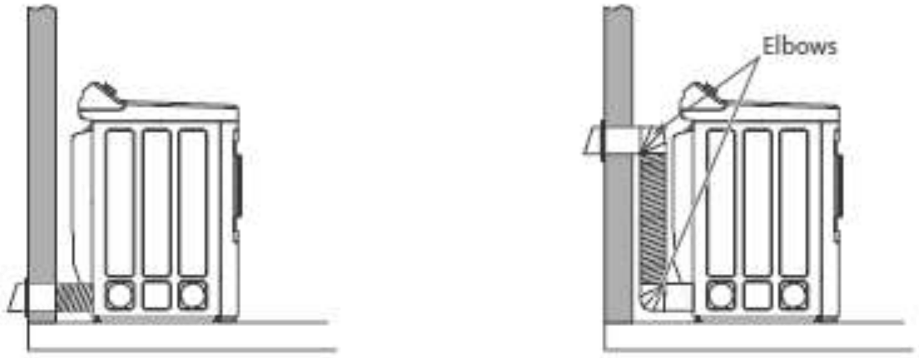
- Only flexible metal (foil-type) ducts that comply with the requirements of the "Outline for Clothes Dryer Transition Duct Subject UL 2158A", shall be used in the United States and Canada.
- Do not install flexible metal duct in walls, ceilings, floors or other enclosed spaces.
- Flexible metal duct shall not exceed 8 feet (2.4 m) in total.
- Do not rest the ducting on sharp materials and objects.

To ensure the best performance of flexible metal (semi-rigid and foil type) transition duct:

1. Slide one end of the duct over the exhaust outlet pipe at the back of the dryer.
2. Secure the duct to the pipe with a clamp.
3. Move the dryer to its final position.
4. Extend the duct to its full length. Allow 2" (51 mm) of duct to overlap the house exhaust outlet pipe. Cut off and remove the unwanted duct. Keep the duct as straight as possible for maximum airflow.
5. Secure the duct to the house exhaust outlet pipe with a clamp.

For transition venting (dryer to wall):

DO:

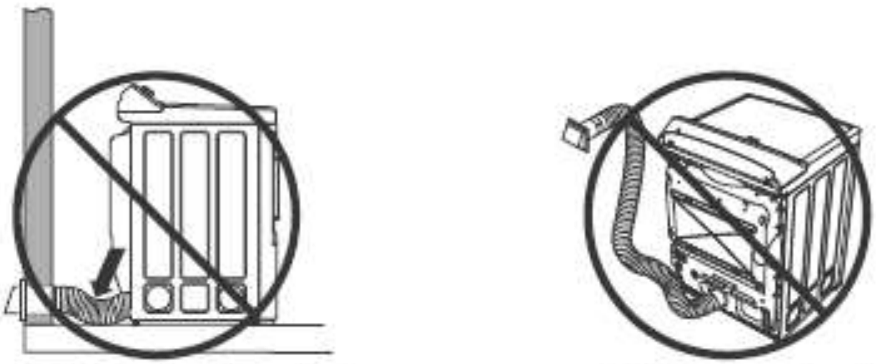


DO cut duct as short as possible
and install straight into wall

DO use elbows when turns
are necessary

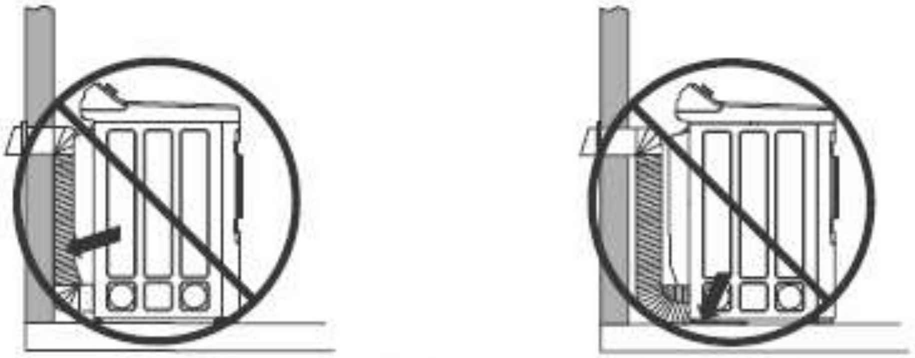
Fig.20 Correct venting installation

DO NOT:



DO NOT bend or collapse ducting
Use elbows if turns are necessary

DO NOT use excessive exhaust length
Cut duct as short as possible



DO NOT crush duct against the wall

DO NOT set dryer on duct

Fig.21 Dangerous venting installation set ups

Exhaust Length

Maximum length of exhaust duct

The maximum length of the exhaust duct system depends upon:

- The type of ducts used (rigid or thick-walled flexible metal).
- The number of elbows or bends used.
- The type of exhaust hood (wall cap).

1 Refer to the exhaust duct length chart (page 33) that matches your hood type to determine the maximum duct lengths you can use. DO NOT use duct lengths longer than specified in the exhaust duct length charts.

Using exhaust duct systems longer than is specified will:

- Accumulate lint creating a potential fire hazard.
- Shorten the life of the dryer.
- Reduce the performance, resulting in longer drying times and an increased energy usage.

2 Determine the number of elbows/bends you will need.

3 In the column listing the type of metal duct you are using (rigid or flexible metal), find the maximum length of metal duct on the same line as the number of elbows/bends to be used (refer to page 33).

Important!

- ***Use 4" (102 mm) metal duct only.***
- ***Do not use duct that is longer than that specified in the table on page 33.***
- ***Flexible metal duct shall not exceed 8 feet (2.4 m) in total.***

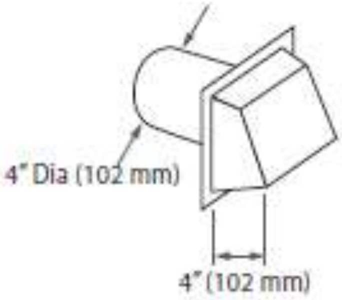
The correct exhaust installation is YOUR RESPONSIBILITY.

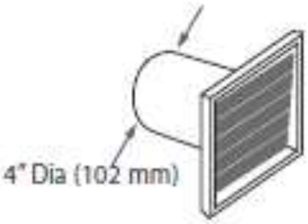
Problems due to incorrect installation are not covered by the warranty.

⚠ WARNING!

Incorrect installation of the exhaust duct may result in poor dryer performance and increase the risk of fire.

Preferred 4" (102 mm) Hoods

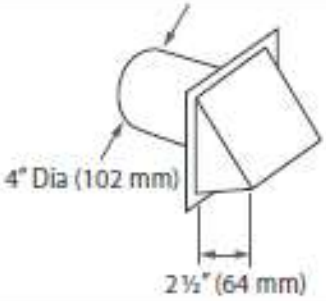




When you have a 4" (102 mm) Hood

	Maximum length of 4" (102 mm) diameter metal duct.			
Number of 90° elbows/bends	Rigid metal		Flexible metal (fully extended)	
0	90 ft	27.4 m	8 ft	2.4 m
1	60 ft	18.3 m	8 ft	2.4 m
2	45 ft	13.7 m	8 ft	2.4 m
3	35 ft	10.7 m	8 ft	2.4 m
4	25 ft	7.6 m	8 ft	2.4 m

Acceptable 2 ½" (64 mm) Hood (for short length installations)



When you have a 2 ½" (64 mm) Hood

	Maximum length of 4" (102 mm) diameter metal duct.			
Number of 90° elbows/bends	Rigid		Flexible Metal (fully extended)	
0	60 ft	18.3 m	8 ft	2.4 m
1	45 ft	13.7 m	8 ft	2.4 m
2	35 ft	10.7 m	8 ft	2.4 m
3	25 ft	7.6 m	8 ft	2.4 m
4	15 ft	4.6 m	8 ft	2.4 m

Standard rear exhaust

We strongly recommend the use of rigid metal exhaust duct. We recommend you install your dryer first, before installing your washer. This will allow you easier access for connecting the exhaust.

Place the end of the exhaust duct on the outlet at the rear of the dryer. Secure with duct tape or a hosed clamp. For a straight installation, connect the dryer exhaust directly to the wall. Use duct tape to secure the join.

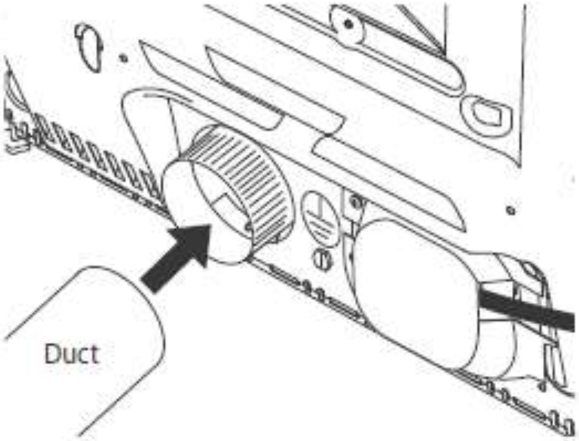


Fig.22 Attaching the metal duct to the dryer outlet

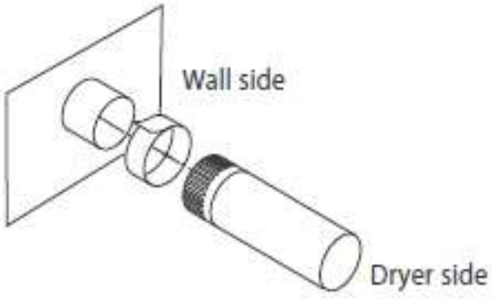


Fig.23 Securing the duct join with duct tape

Dryer exhaust to right, left or bottom of cabinet

⚠ WARNING!

Before performing this exhaust installation, be sure to disconnect the dryer from its electrical supply. Protect your hands and arms from sharp edges when working inside the cabinet. Be sure to wear gloves.

Important!

- **Dryer exhaust to right of cabinet (electric models only).**
- **Dryer exhaust to left of cabinet (gas and electric models).**

Detach and remove the bottom, right or left side knockout (the opening for alternate ducting), as preferred for the direction of ducting. Tape around the knockout and exhaust opening to provide protection from sharp edges during installation. Remove the screw inside the dryer exhaust duct and slide the duct out of the dryer. Keep the screw. Cut the duct as shown in Figure 24. Retain portion A of the duct.

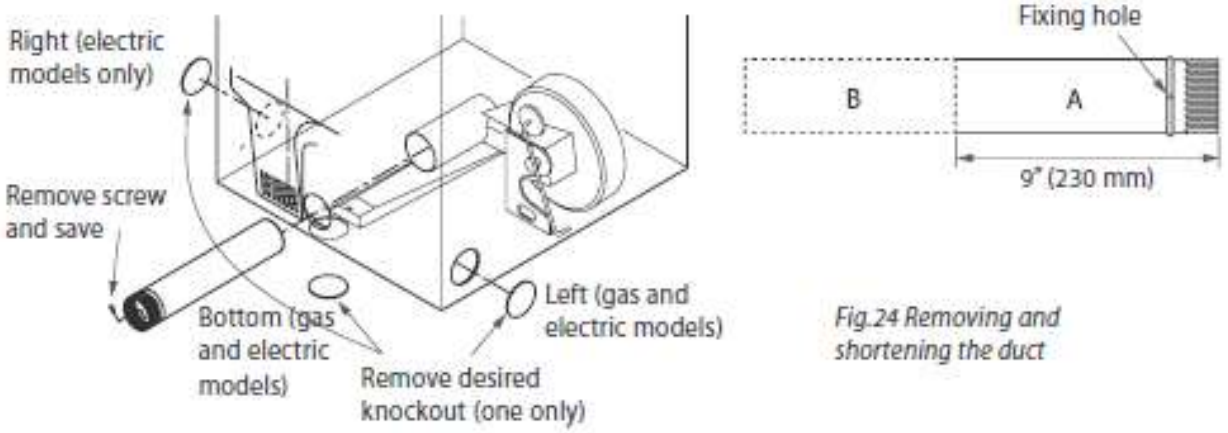

Right (electric models only)
Remove screw and save
Bottom (gas and electric models)
Remove desired knockout (one only)
Left (gas and electric models)
Fixing hole
B
A
9" (230 mm)

Fig.24 Removing and shortening the duct

Tab location
Through the rear opening, find the tab located in the middle of the dryer base. Using a flat blade screwdriver, lift the tab to approximately 45°.

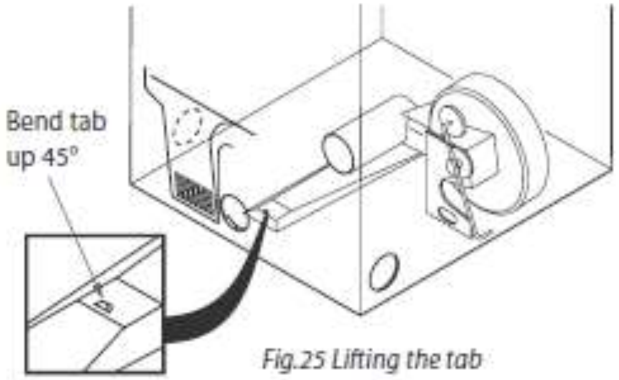


Fig.25 Lifting the tab

Adding shortened duct section

Connect portion "A" of the original length of duct to the blower housing, ensuring the shortened duct is aligned with the tab in the base. Use the screw saved previously to secure the duct in place through the tab on the dryer base.

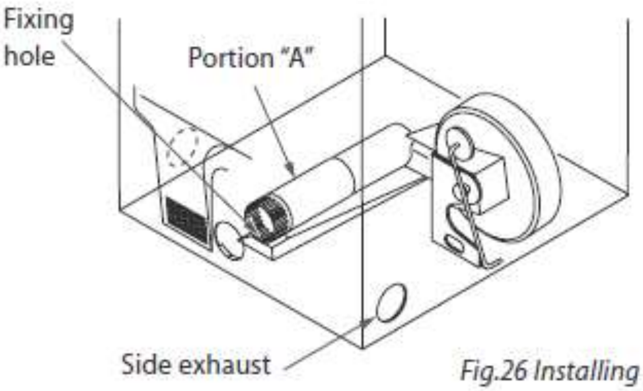


Fig.26 Installing shortened duct section

Adding ducting for exhaust to the right or left side of the cabinet

- Assemble a 4" (102 mm) elbow with a 4" (102 mm) length of duct. Secure the joint with duct tape.
- Insert the elbow end of the duct assembly carefully through the side opening, and connect this end to the internal duct of the dryer (inside).

⚠ WARNING!

Be sure not to pull or damage the electrical wires inside the dryer when inserting the duct.

Internal duct joints must be secured with tape, otherwise they may separate and cause a safety hazard.

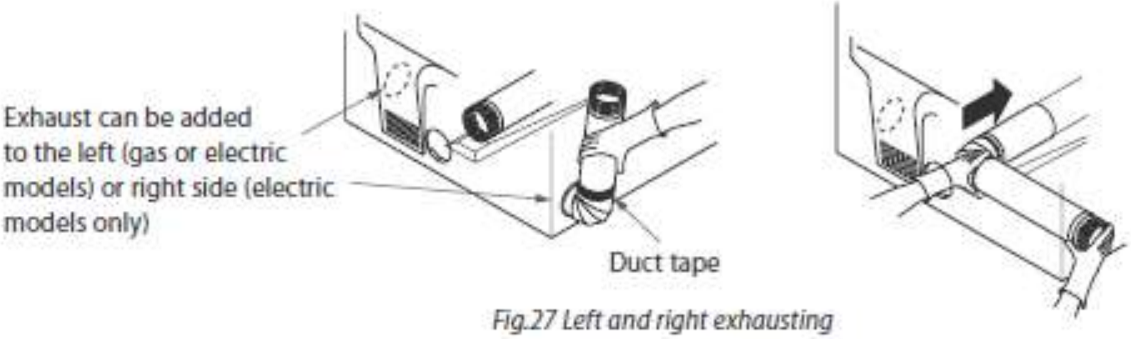

Exhaust can be added to the left (gas or electric models) or right side (electric models only)
Duct tape

Fig.27 Left and right exhausting

- Use duct tape (as shown in Figure 28) to secure the joint between the dryer internal duct and the elbow, and also the joint between the elbow and the side duct.

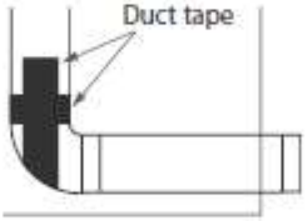


Fig.28 Securing joints correctly with duct tape

- Cover the original duct opening at the back with a plate (kit WE1M454), available from Fisher & Paykel, refer to page 84).

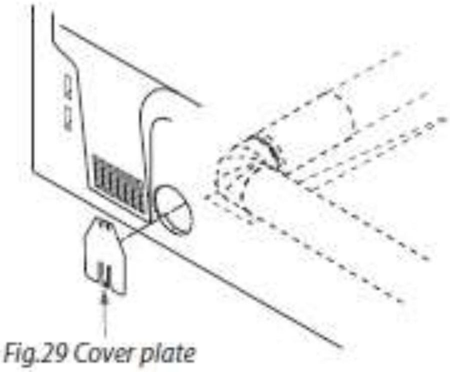


Fig.29 Cover plate

Adding elbow for exhaust through bottom of cabinet

- Insert the elbow section of the duct through the rear opening and connect it to the dryer internal duct.
- Secure the joint between the internal duct and elbow with duct tape, as shown in Figure 28 (page 37).

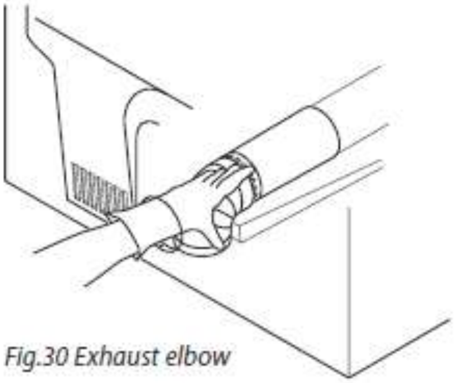


Fig.30 Exhaust elbow

- Complete the exhaust system by connecting the required standard metal elbows and ducts.
- Cover the original duct opening at the back with a plate (kit WE1M454, available from Fisher & Paykel (refer to page 84). Refer to Figure 29 (page 37).
- Move the dryer into its final position.

⚠ WARNING!

The rear duct opening must be covered with a plate. The dryer must not be operated without the plate in place.

Water connection (for selected models with Steam cycles)

Supply requirements

The hot and cold faucets MUST be installed no further than 42" (1070 mm) from the washer's inlet supply. Faucets need to be ¾" (19 mm) so the inlet hoses can be connected correctly.

Inlet water pressure required: Min. 10 psi (70 kPa) to Max. 120 psi (827 kPa). Consult your Water Department for information about the pressure supplied to your home.

Note: if your domestic water supply is hard, we recommend using a water softener to help reduce the build up of lime scale within the steam generator. Over time, a build up of lime scale may block up the water system, causing reduced performance and the possible need for part repair or replacement.

Water supply connection

For the Steam cycles to work correctly, the dryer must be connected to the cold water supply. A "Y" connector can be used so that the washer (which also requires a cold water supply) and dryer can be connected to the cold supply at the same faucet.

Important!

Use the new inlet hoses provided with your dryer. Never reuse old hoses or rubber washers.

Inlet hose replacement

We recommend the inlet hoses are changed every 5 years. Hoses should also be checked from time to time and replaced if any wear, cuts, bulges, kinks or leaks are found. WARNING!: Failure to do so may result in a flood and damage to property.

To connect the dryer

Parts required:

- Flat rubber washers (4).
- Filter washer.
- "Y" connector.
- Short inlet hose.
- Long inlet hose.

1. Ensure the cold faucet is turned off. Disconnect the cold inlet hose from the end of the faucet.
2. Insert the filter washer into the female coupling of the short inlet hose and connect it to the cold faucet.
3. Insert a flat washer into the female coupling of the "Y" connector and fit the connector to the male coupling of the short inlet hose.

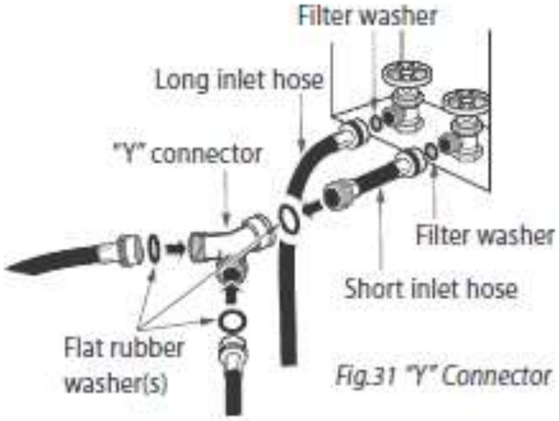


Fig.31 "Y" Connector

4 Check that the washer inlet hose (which has been removed from the faucet) has a flat washer or filter washer fitted. If not insert a flat washer and connect the hose to one of the male couplings on the "Y" connector.

5 Take the long inlet hose and insert a flat washer into the straight female coupling and connect it to the other male coupling on the "Y" connector.

6 Insert a flat rubber washer into the other female connector and couple the hose to the inlet valve on the rear of the dryer.

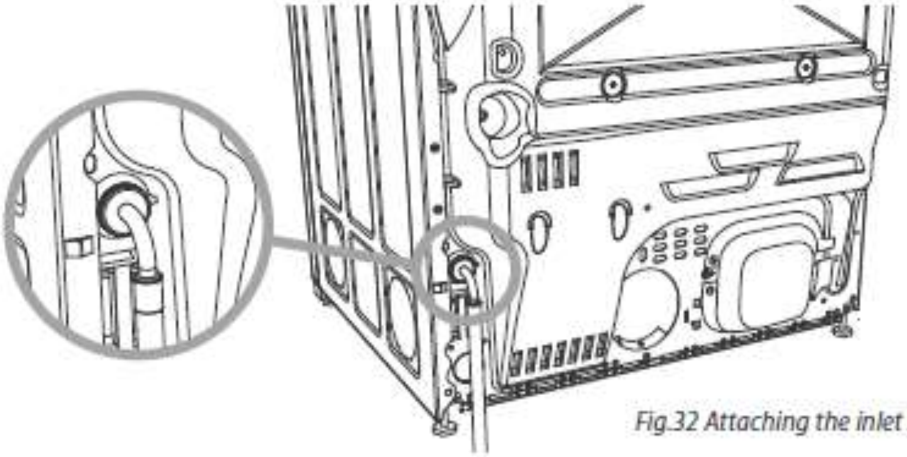


Fig.32 Attaching the inlet hose to the dryer

7 Check that all connections are firmly hand tight, then using a pair of pliers tighten each coupling another two-thirds of a turn.

Important!

Ensure you DO NOT OVERTIGHTEN the connections. Overtightening may result in damage to the couplings.

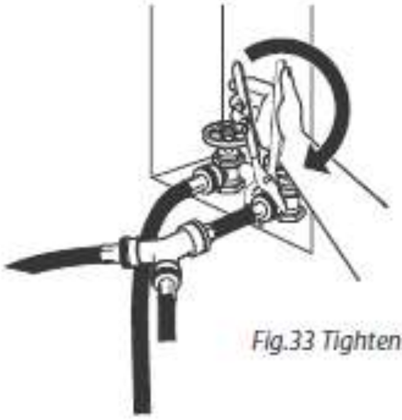


Fig.33 Tightening the connections

8 Check immediately for any leaks from the "Y" connector, hose couplings and/or the faucet. Check again for leaks after 24 hours.

Reversing the door

Tools required:

- Standard #2 Phillips screwdriver.
- Tape-tipped putty knife.
- Needle-nosed pliers.

1 Remove the plug from the power outlet.

2 Open the door and remove the blanking plugs opposite the hinges. Retain the blanking plugs for Step 4.

3 With the door completely open, remove the bottom screw from each hinge on the dryer face. Insert these screws about half way into the **top** holes, for each hinge, on the opposite side (where you removed the plastic plugs). Apply firm pressure to get the screw started in untapped holes.

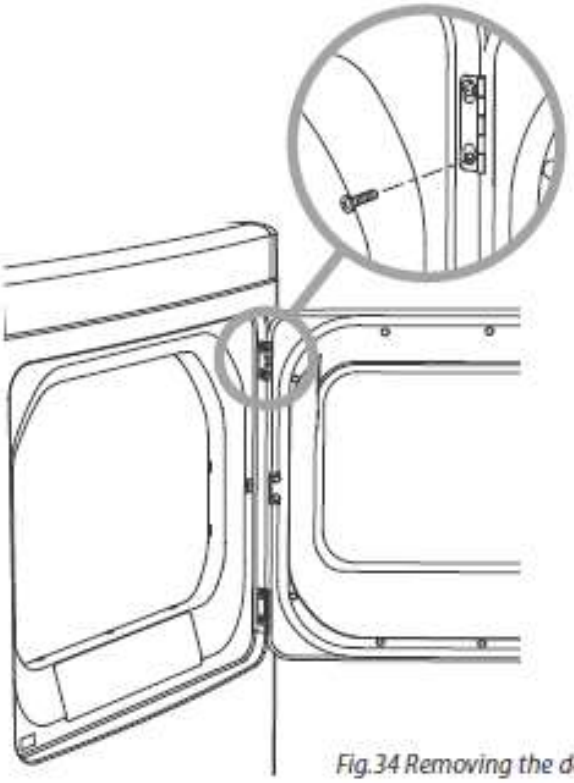


Fig.34 Removing the door

4 Loosen the top screw from each hinge on the dryer face to half way. With one hand holding the top of the door and the other hand holding the bottom, remove the door from the dryer by lifting it up and out. Remove the two remaining screws and retain for later use. Fit the blanking plugs removed in Step 2.

5 To invert the direction of the door panel, lay the door face down on a safe, protected surface and remove the four screws from the hinges.

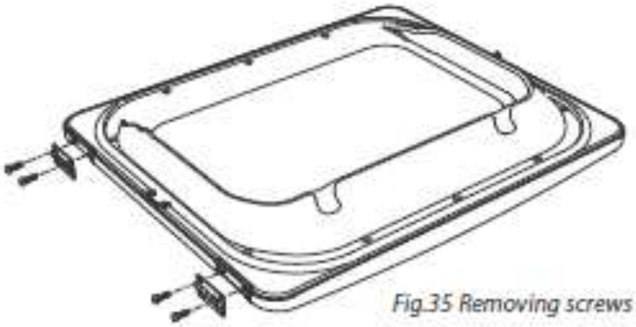


Fig.35 Removing screws from the hinges

6 Separate the door panel from the inside of the door by removing the six screws, as shown in Figure 36.

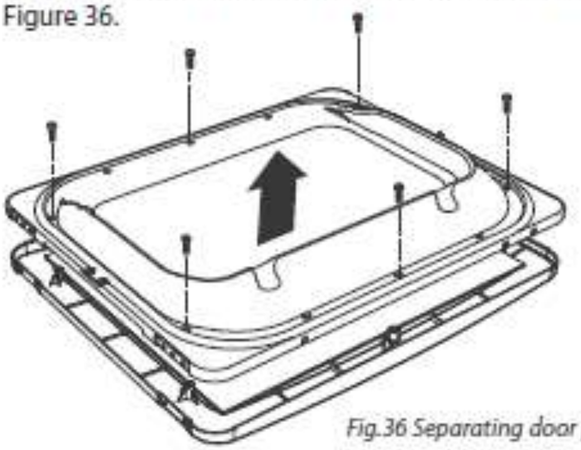


Fig.36 Separating door panel from inside of door

Important!

Remove only the six screws as shown.

7 Lift and rotate the door panel 180° then reinsert the inside of the door in the panel. Replace the six screws removed in Step 6.

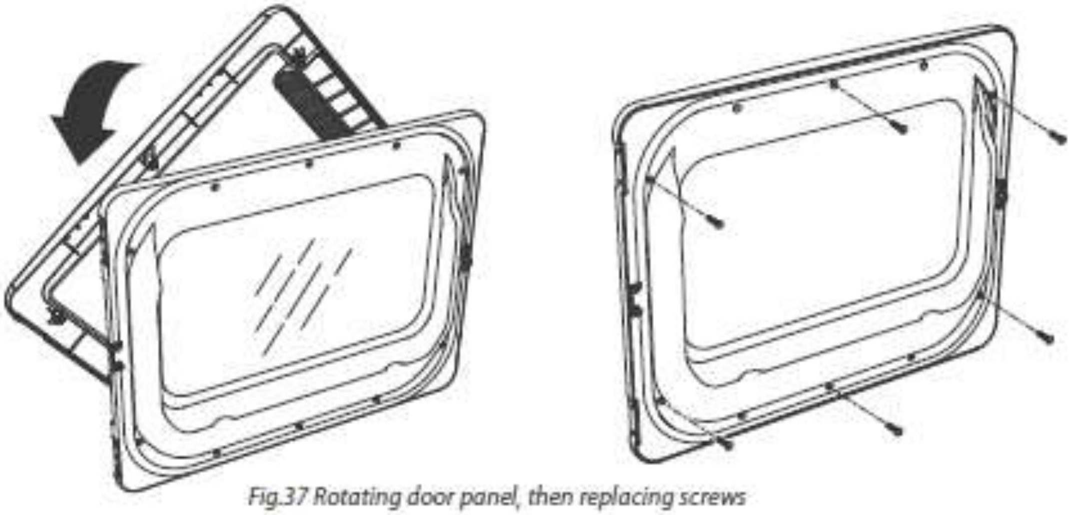


Fig.37 Rotating door panel, then replacing screws

8 Reattach the hinges on the opposite side to the door handle, using the same four screws on the hinge retained from removing the hinges in Step 5.

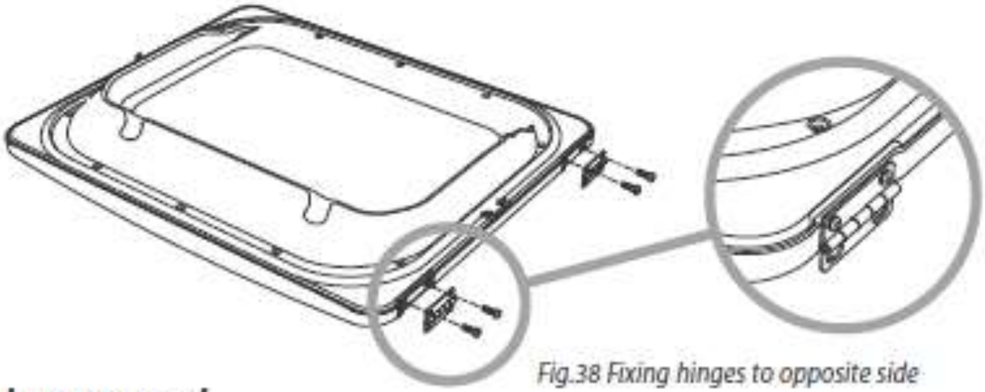


Fig.38 Fixing hinges to opposite side

Important!

Check the position of the hinge as shown in Figure 38.

9 To change the direction of the door strikes, unscrew both the cover plate and the strike plate (the strike plate being the plate with the metal part protruding). Reinstall one plate in place of the other.

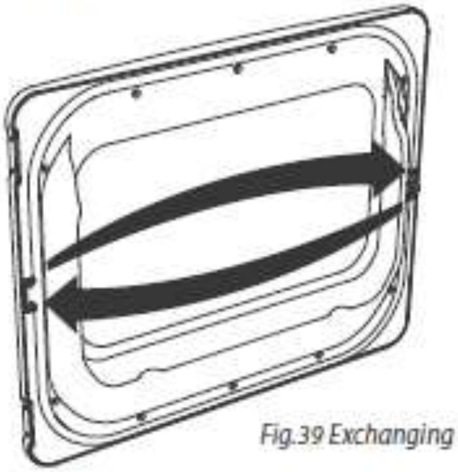


Fig.39 Exchanging cover plate and strike plate location

10 Install the door on the opposite side of the opening by moving the door in and down until the top hinge and bottom hinge are resting on the two screws inserted in Step 3. With the two screws retained in Step 4, secure each hinge at the bottom.

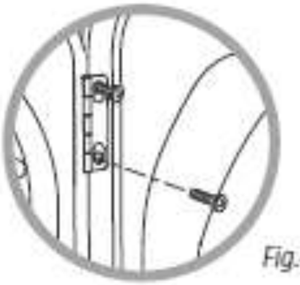


Fig.40 Installing the door in the reverse position

11 Tighten the two top screws of each hinge.

Leveling the dryer

Position the dryer near the final location. Adjust the four leveling legs (wind up or down) at the corners as needed, to ensure the dryer matches the height of the washer and is level from side to side and front to back. The dryer must rest firmly on all four legs, and not rock in any direction.

1. Move the dryer to its final location.
2. To ensure the dryer is correctly level from side-to-side, place a spirit level on the top center of the machine. If level, the air bubble will sit between the two lines.
3. To check whether the dryer is correctly level from front-to-back, open the door to the 90° position, place the spirit level on the top edge of the door and check the bubble sits between the two lines.
4. If the dryer is not level in any direction, adjust the height of the appropriate leg(s) until the dryer is correctly level.

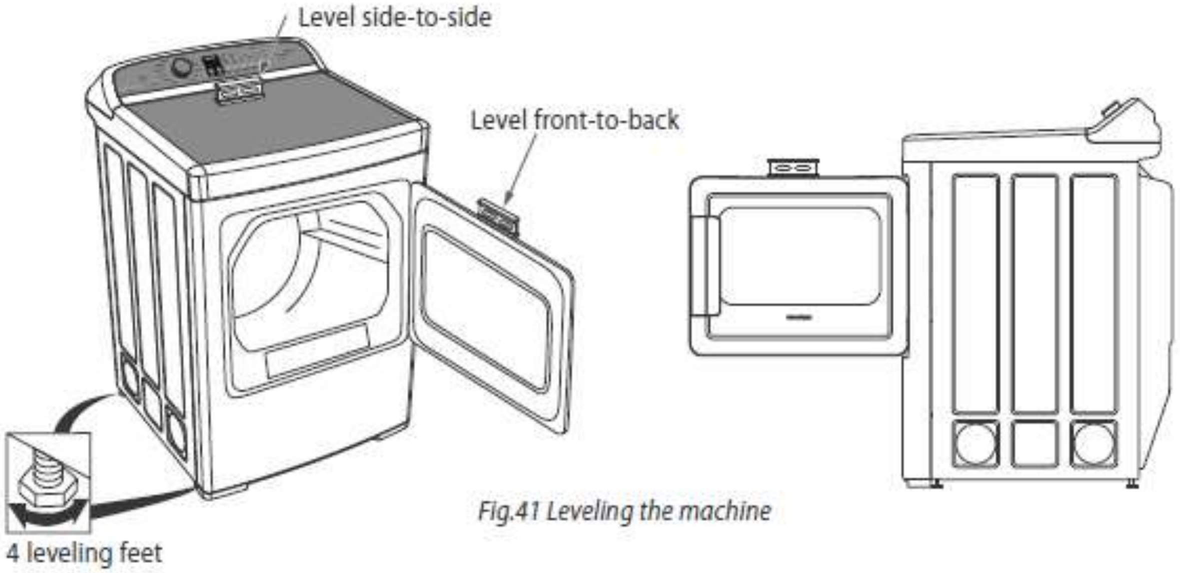


Fig.41 Leveling the machine

Installation checklist

1. Packaging

Have all of the packaging materials been removed, and disposed of responsibly? Remove the accessories from the drum.

2. Parts

Check that all parts have been installed.

3. Tools

Check all tools are present.

4. Grounding

Important!

Make sure the dryer is correctly grounded before operating.

This appliance must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This appliance is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

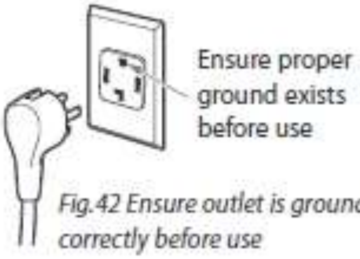

Ensure proper ground exists before use

Fig.42 Ensure outlet is grounded correctly before use

5. Installation

Please ensure:

- No plastic or non-UL listed flexible metal foil material has been used for the exhaust ducting.
- Exhaust material used is either rigid ducting or thick wall flexible metal ducting.
- All joints in the ducting are secured with duct tape, as described in the instructions. Screws or other fastening devices which extend into the inside of the duct should not be used.
- Ducting system is clean and is correctly and securely connected to the dryer.
- The ducting system is not being crushed or kinked when the dryer is in its final position.
- The faucets are turned on. Check for leaks around the connections (at the Y connector, hoses and faucets).
- The dryer is correctly level and does not rock in any direction.
- The inside of the drum is wiped out with a damp cloth to remove any residue remaining from manufacture or installation, before use.

Additionally for electric dryer models only, check:

- Dryer is plugged or directly wired into an approved fitting, and is properly grounded.
- Dryer starts, heats, cools and shuts off.
- Customer has been shown how to use the dryer.

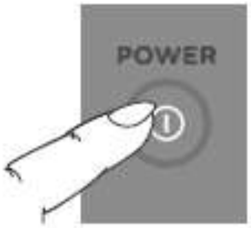
Additionally for gas dryer models only, check:

- Dryer is plugged into an approved fitting, and is properly grounded.
- All fittings in the gas line have been tested for leaks.
- Exhaust temperature increases, to confirm ignition has occurred.
  - If ignition does not occur initially, it may be due to air in the gas line or low voltage power supply.
  - The gas regulator valve may fail to open if the power supply falls below 105 Volts.
  - If the gas fails to flow or does not ignite, the dryer will automatically switch off.
- Customer has been shown how to use the dryer.

6. Turning the dryer on

To turn the dryer on, simply touch the POWER button.

Note: if the dryer has been exposed to temperatures below freezing for an extended period of time, allow it to warm up before touching POWER. Otherwise, the display will not come on.



If the dryer will not start, check that:

- The START/PAUSE button has been pressed firmly.
- The dryer is plugged in and the power is turned on. Could the household supply be at fault?
- The household fuse is intact and that the circuit breaker has not been tripped.
- The dryer door is completely closed.

Note: some models of dryer have a drum reversal feature to reduce clothes tangle. Throughout the drying cycle the motor will run for 4 minutes, then stop and run in the opposite direction for 40 seconds before reversing again.

The dryer may emit an odor when it is first used. This is due to the new heating element, and is normal. The odor will diminish with the use of the dryer.

Important!

Please read the user guide in its entirety and familiarize yourself with the correct use and care of the dryer.

Servicing

Important!

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation after servicing/installation.

Drum light replacement

Before replacing the light bulb, be sure to unplug the dryer power cord or disconnect the dryer at the household distribution panel by removing the fuse or switching off the circuit breaker. Reach inside, above the dryer opening inside the drum. Remove the bulb and replace with the same size bulb.

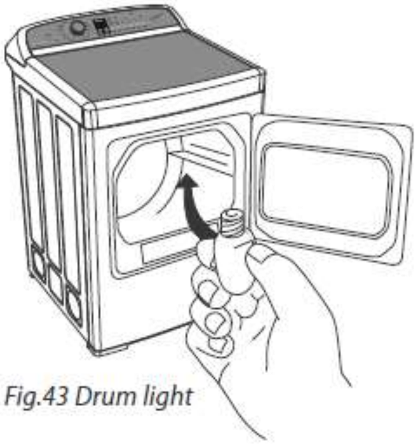


Fig.43 Drum light

Features

Perfect with the Fisher & Paykel *AquaSmart*™ washer
The dryer combined with the *AquaSmart*™ washer's superior spin performance and quick cycle times will cut laundry turn around time, reducing the time you spend doing laundry.

Superior clothes care
Superior clothes care is accomplished by an efficient high airflow fan and careful heat control. Your AeroCare dryer provides the right heat for temperature-sensitive delicate garments while still efficiently drying more robust regular and denim loads.

Reverse action tumbling (selected models only)
You can select to have the drum rotate in the reverse direction regularly, so your clothes dry more evenly and roping and tangling of garments is minimized.

Autosensing
AeroCare's internal computer measures the moisture content of the load using metal sensing bars and together with a temperature sensor determines when the clothes have reached the selected dryness level.

Steam cycles (selected models only)
Two cycles, AEROSTEAM and AEROSTEAM PLUS use pulses of steam to de-wrinkle items and/or freshen your garments from unpleasant odors or after prolonged storage.

Stainless steel drum
AeroCare's stainless steel drum is not only more hygienic, it's also more resilient and is easier to keep looking good.

Wrinkle Free

Use WRINKLE FREE to minimize wrinkling and creasing in your garments. After the clothes are dried, they will be tumbled periodically in cool air. WRINKLE FREE will continue for 24 hours or until the dryer is stopped by pressing POWER, or opening the door.

WRINKLE FREE can be selected if you are using one of the automatic cycles (excluding the ENERGY SAVER cycle), and on the TIME DRY cycle.

Drum light

A convenient light located inside the dryer helps make unloading easier. The light switches on automatically when the door is opened.

Drying rack

The drying rack can be used for drying articles such as soft toys, pillows, washable sweaters and shoes, ie items that are too delicate or maybe damaged by tumbling. Place (hook) the rack over the lint filter so that it extends back into the drum.

Note: the drying rack should be used with the RACK DRY or TIME DRY cycles only. Also, the drying rack should not be used when there are other items in the dryer as this may cause damage to the garments.

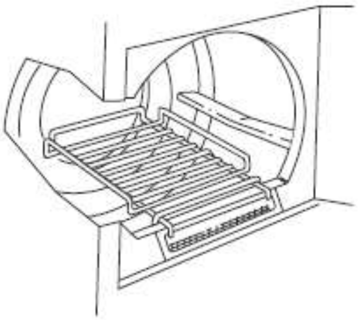


Fig.44 Drying rack

Getting started quickly

- Ensure the lint filter has been cleaned before each drying cycle. Check the lint filter has been replaced correctly in its housing before using your dryer.
- Sort and load items into the dryer drum. Ensure that no items are caught in the way of the door, then close the door. Check the door is fully closed before starting the dryer.

Important!

Ensure there is plenty of room for the garments to tumble freely while drying – do not overload your dryer. Load in terms of the space clothes take up when dry rather than when they are wet.

1. Press POWER to activate your dryer.
2. Your dryer will default to the REGULAR cycle. Select your desired drying cycle by turning the *SmartTouch*™ Control Dial.
3. Select your preferred drying options (If you wish to select different options from the default options programmed for the cycle) using the *SmartTouch*™ buttons on the right hand side of the panel.
4. Touch the START/PAUSE button to start the drying cycle.

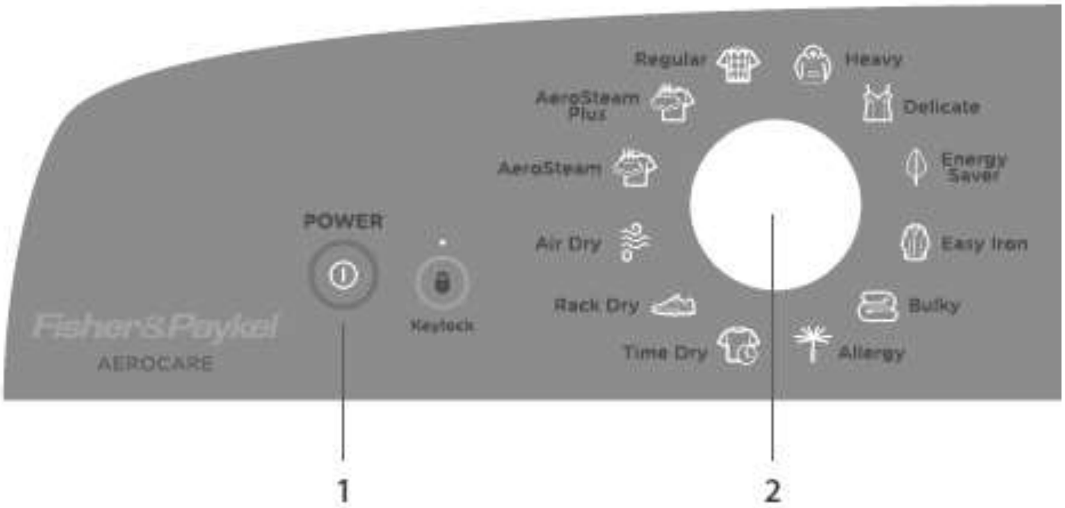


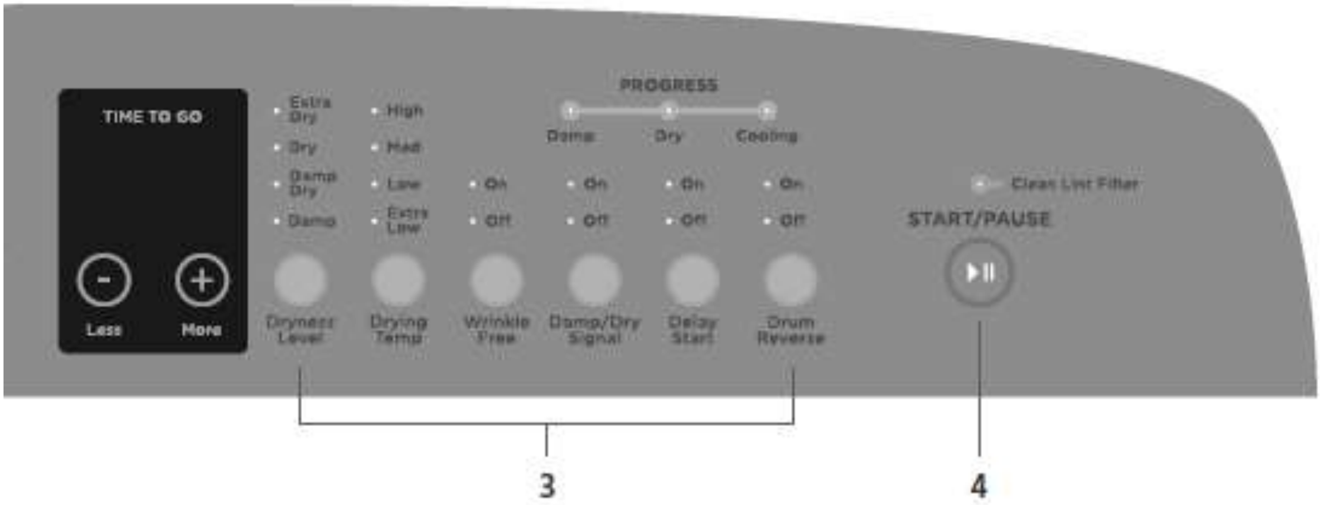
Fig.45 AeroCare control panel (models may vary)

Note: the control panel may differ depending on what model of dryer you have.

- If you make an invalid selection the dryer will beep to alert you.
- When the cycle finishes, your dryer will beep to alert you and then turn off automatically. If the WRINKLE FREE option has been selected the machine will rotate the drum periodically after the end of the cycle, blowing cool air into the drum to help minimize wrinkling of the clothes.
- If you wish to stop your dryer at any point during a cycle simply touch START/PAUSE to pause the cycle, then open the door. To restart the dryer, close the door and touch START/PAUSE to resume the cycle.
- If you wish to cancel a cycle or select a different option once a drying cycle has started, touch the START/PAUSE button then select the new cycle or option. Touch START/PAUSE to restart the dryer with the new settings.

Important!

If you wish to stop the dryer before the cycle has finished you MUST remove the clothes IMMEDIATELY and spread them out to cool. DO NOT leave the clothes in the dryer or bunched up in a clothes basket, these must be spread out in order for the heat to dissipate. There is a risk of spontaneous combustion. Take extreme care when removing items as the drum and the load items may be extremely hot.



Important!

Failure to follow the advice in this guide may result in damage to your garments and your expectations of drying performance may not be met.

Note: selected drying cycles and options may not be available depending on your model of dryer.

SmartTouch™ Control Dial

The *SmartTouch*™ Control Dial provides easy and efficient drying cycle selection. As you rotate the dial, the icon of the drying cycle selected will be illuminated, along with the default settings for that cycle on the right side of the control panel.

SmartTouch™ buttons

The smooth, easy clean buttons enable simple selection of options with lights clearly showing the selections you are making.

Digital display screen

The digital display screen provides feedback on how long the drying cycle has to go. If you have programmed a DELAY START, the time remaining until the cycle will start will be displayed here, along with any messages to help you with the overall running of your dryer (eg user warnings).

Time to go

Your AeroCare dryer displays approximately how many minutes the cycle has remaining, so that you can tell at a glance when your drying will be finished. Please be aware that a number of factors influence the overall cycle time, eg the fabric type, load size, the wetness of the load, environmental conditions, etc. If the dryer display screen shows a dashed line tracing around the outside of the screen, this indicates the dryer is sensing the moisture in the load. The updated time remaining will soon appear on the screen.

Progress lights

The progress lights indicate what part of the cycle the dryer is currently up to (DAMP, DRY, or COOLING). The light for the current part of the cycle flashes, to let you know at a glance how dry your load is.

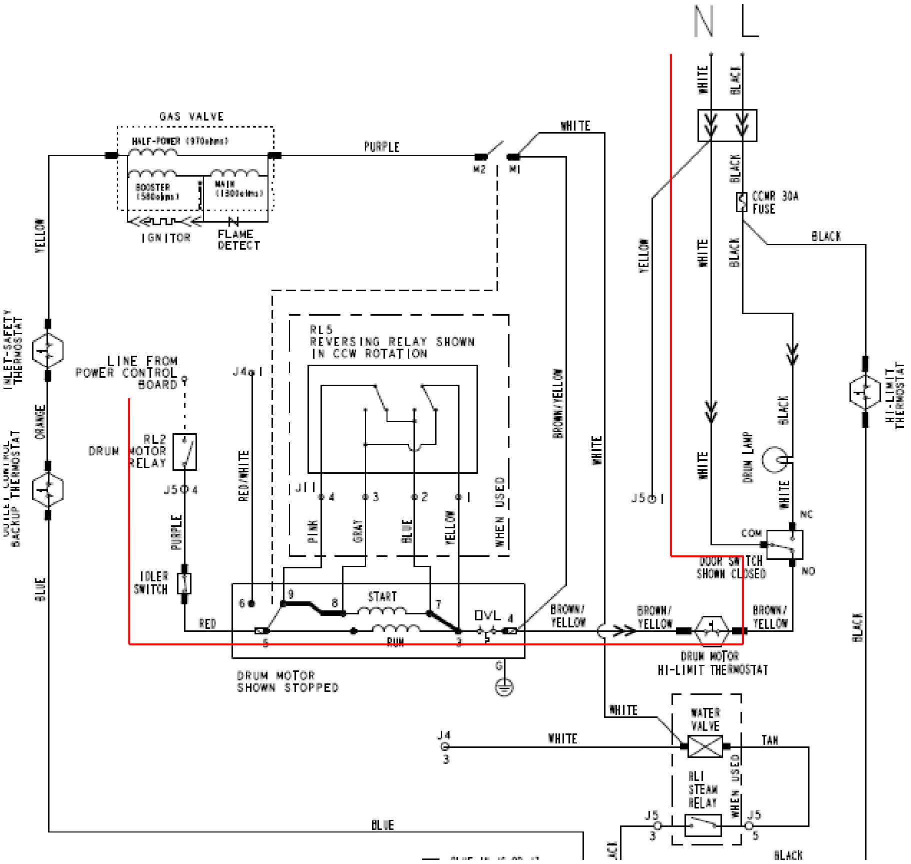
1.1 Operational Control Sequence

1.1.1 Motor Operation

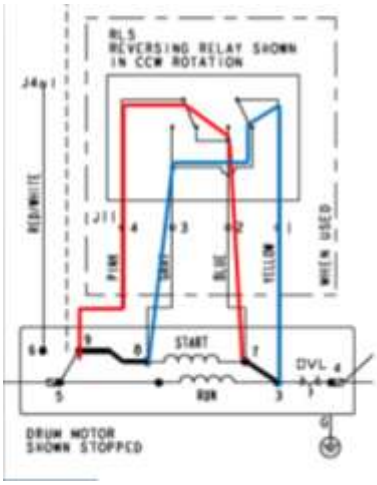
The motor runs on the 120V circuit of the dryer. Power is supplied into the RL2 relay.

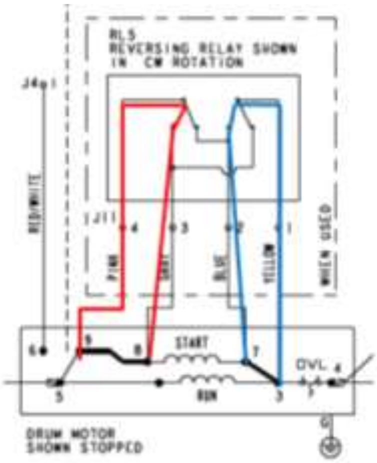
Power is then fed through both the start and run windings on the motor. The centrifugal switch then disengages the start winding once the motor has started.

In the motors neutral circuit there is an internal overload. The neutral circuit then runs through the door switch and to the mains terminal block.



If reverse drum is selected, the motor terminals 3, 7, 8 and 9 are switched by the RL5 relay in order to change the drum direction. The sequence is defined by 4 minutes in CCW, 40 seconds in CW direction and a pause of 5 seconds every direction change.





1.1.2 Control Operation

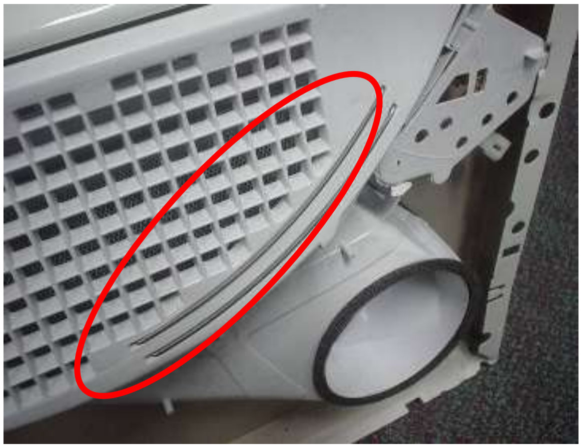
The control board runs in 3 ways, Automatic cycles, Timed Cycles and Steam Cycles.

Automatic cycles

When running an automatic cycle, the control board initializes the default cycle time and will execute the temperature control during all the cycle.
During the first 5 minutes elapsed, the control board runs the Restriction size algorithm and the Load size algorithm, then a set of parameters are selected to calculate a new remaining time.
During the drying process, control board reads the sensor rod signal and calculates the filter voltage signal
Once the target voltage is reached the control calculates the new remaining time
The dryer runs without heat during the last minutes of the cycle (it depends of the cycle and heat level).

Sensor rods

There should only be a minimum of 1Mohm across the bars when dry. The resistance should lower when moisture tracks across the bars. To test the bars, check their resistance dry, then wet your finger and place it across the bars and check for a change in resistance.



Timed Cycles

When running a Timed cycle the Cycle time is set by the user by touching the More and Less Keys from the User Interface.

During the Timed cycle the dryer will run the temperature control algorithm and the timer until the remaining time is 0:00.

Steam Cycles

The steam cycles (Aerosteam and Aerosteam Plus) switch between heat and steam by fixed time periods, which are described below:

	Electric model*		Gas model*	
	Aerosteam Plus	Aerosteam	Aerosteam Plus	Aerosteam
Steam	180		180	
Heat	120		150	
Steam	60	90	60	90
Heat	120	120	150	150
Steam	30	30	30	30
Heat	120	120	150	150
Steam	30	30	30	30
Heat	420	450	450	480
Cooldown	120	60	120	60

*Time in seconds

Wrinkle Free

After completion of the drying cycle the drum will rotate (with no heat) 30 seconds and will be paused for 5 minutes to prevent wrinkling or creasing of clothes for up to 24 hours or until the power is turned off, start/pause pressed or open the door.

Delay Start

When the delayed start button is selected the display will change to show to 0 minutes. This delay time period can then be adjusted up and down using the “+” and “-“ buttons below the display. The delay time will increment in 5 min, 15 min , 30 min 1 hr and then in 1 hour steps up to 12 hours. The dryer will rotate the drum with no heat for 30 seconds every 15 minutes to reduce risk of dye transfer until the cycle starts.

1.1.3 Element Operation (Electric Models)

The element circuit has three thermostats and has a motor switch to stop the heating if the motor should fail.

Power is supplied to line L1 both to control board and one of the terminals of the control relays (Inner coil, Outer coil, Mist valve and Drum).
Power supply is connected to Inlet Safety Thermostat and Outlet Backup Thermostat. If any those thermostats are open due to an abnormal temperature decrease, both Inner and outer coils shall switch off and the dryer will continue the drying cycle. Both coils will switch on when the thermostats close its terminals.

The Hi-limit thermostat Power off the unit when is detected an abnormal temperature decrease.

1.1.4 Thermistor Operation (Electric Model)

There are two thermistor to control the temperature when running a cycle.
Both Inlet and Outlet thermistor are 100k□ resistor at 77°C. The resistance of the thermistors decrease every time the temperature increases.

When the control board detects the temperature is higher that the Outer coil setpoint (due to the inlet or outlet thermistor), the control board switch off the Outer coil, once the setpoint is lower than the Outer coil low setpoint, the Outer coil is switch on again.
When both inlet or outlet thermistor detect that the temperature is Higher that the Inner coil high setpoint, both coils are switch off. Inner coil is switch on when the temperature is lower than the Inner coil low setpoint.

1.1.5 Gas Valve & Ignitor Circuit Operation (Gas Models)

The gas valve system has 2 coils, a booster coil and a main coil, which are operated by thermostats, and a safety coil. There are three thermostats that operate the temperature control of the gas valve. There is also a flame detector that operates the coils and the ignitor.

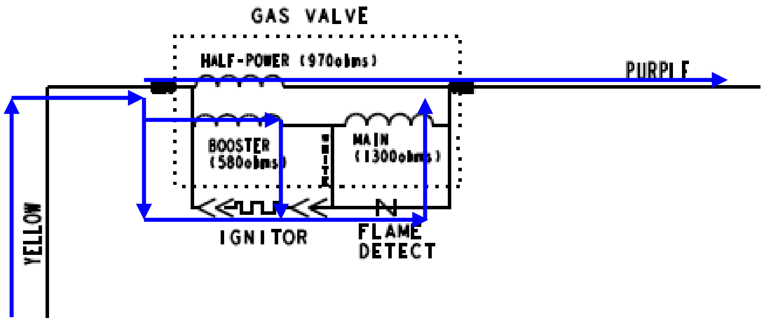
Power is supplied to line L1 both to control board and one of the terminals of the control relays (Gas valve, Mist valve and Drum).
Power supply is connected to Inlet Safety Thermostat and Outlet Backup Thermostat. If any those thermostats are open due to an abnormal temperature decrease, the gas valve shall switch off and the dryer will continue the drying cycle. The gas valve will switch on when the thermostats close its terminals.

The Hi-limit thermostat Power off the unit when is detected an abnormal temperature decrease.

The gas valve assembly operates in two modes, ignition and run. The safety coil is energised during both modes.

When in ignition, the flame detect thermostat is closed. Power feeds through the booster coil and the ignitor because these are in parallel circuit, causing ignition. When the flame has heated the flame detect thermostat, it opens and the valve goes into run mode.

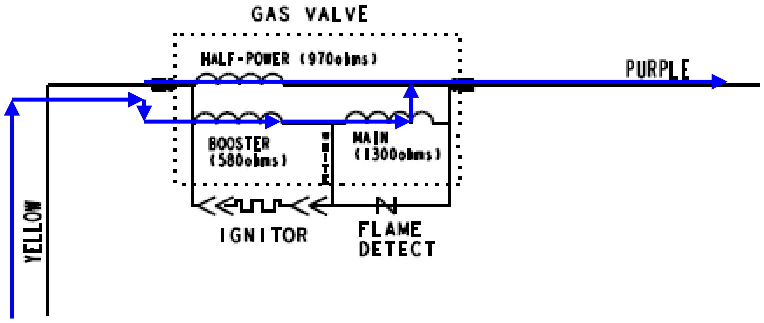
Ignition Circuit

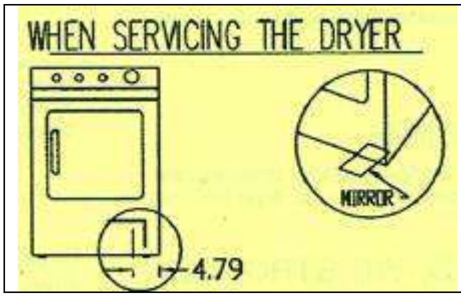


When the flame detect thermostat opens, the booster coil and the main coil are in series circuit, so power is dropped in the booster and is activated in the main. The ignitor is also dropped in voltage, so stops igniting.

The neutral circuit runs through the motor centrifugal switch and back to the main neutral connection.

Run Ciruit





The ignitor functioning and the flame can be seen through a viewer hole located in the base of the dryer. Use a mirror as shown in these figures.

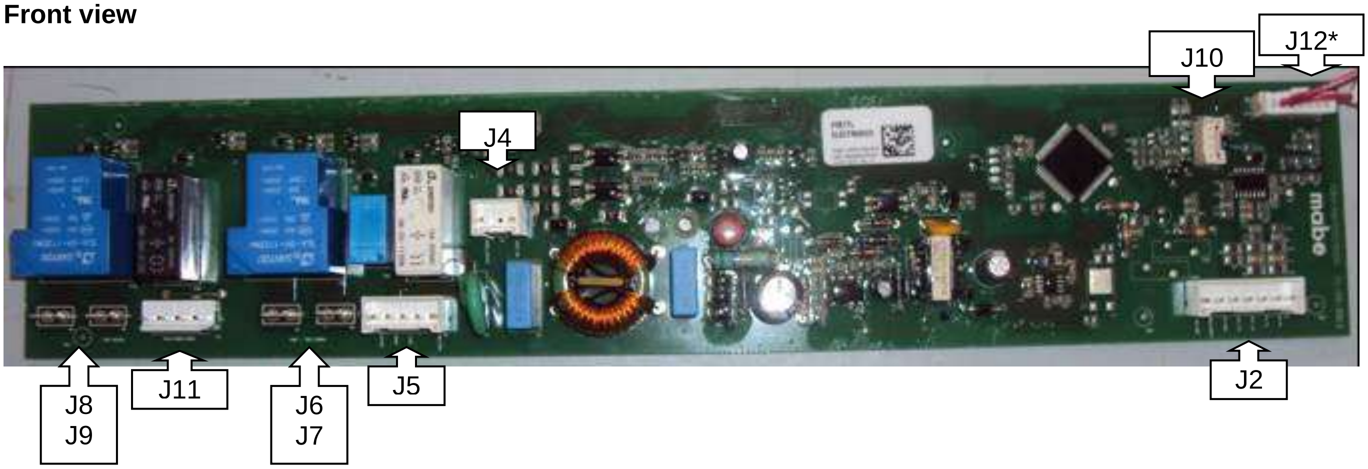
1.1.6 Thermistor Operation (Gas Model)

There are two thermistor to control the temperature when running a cycle.
Both Inlet and Outlet thermistor are 100kΩ resistor at 77°C. The resistance of the thermistors decrease every time the temperature increases.

When the control board detects the temperature is higher that the Inner coil(Gas valve) high setpoint, the gas valve is switched off. Gas valve is switched on when the temperature is lower than the Inner coil (gas valve) low setpoint.

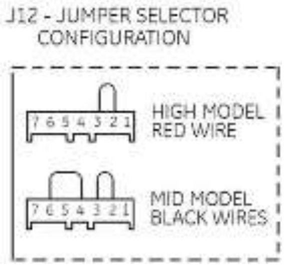
Control Board

Front view



J2 Inlet, outlet thermistor and rods.
J4 Door state
J5 Line, Neutral and Steam
J6 y J7: Inner coil (or valve gas)
J8 y J9: Outer coil.
J10 User interface.
J11 Drum direction
J12 Jumper selector.

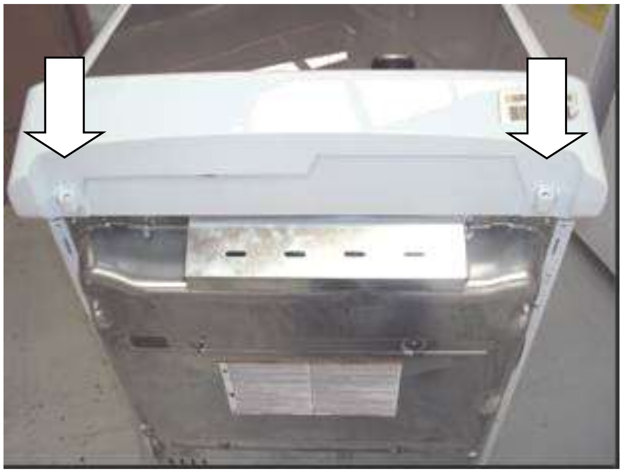
Note J12*



Rear view

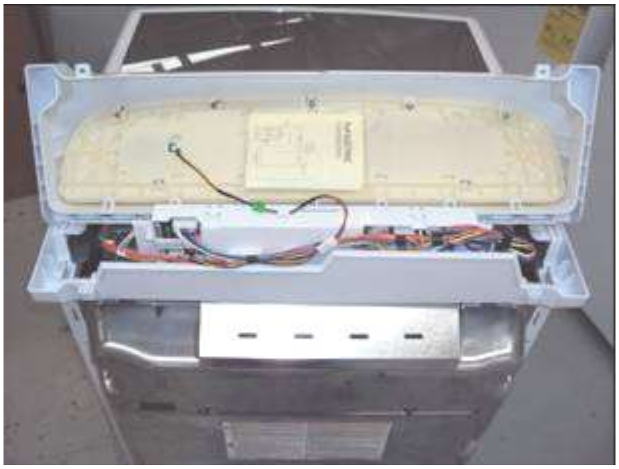
PANEL DE CONTROL

Use desarmador cuadrix #2 para retirar el par de tornillos que se ubican en la parte posterior del copete. **Nota:** Todos los tornillos se retiran con este desarmador.

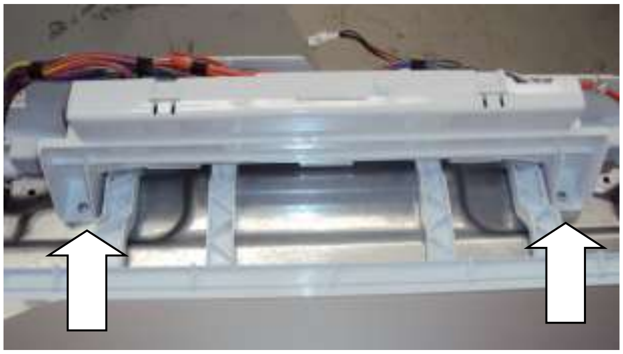


Levante el copete y queda expuesto la tarjeta control y el ensamble copete.

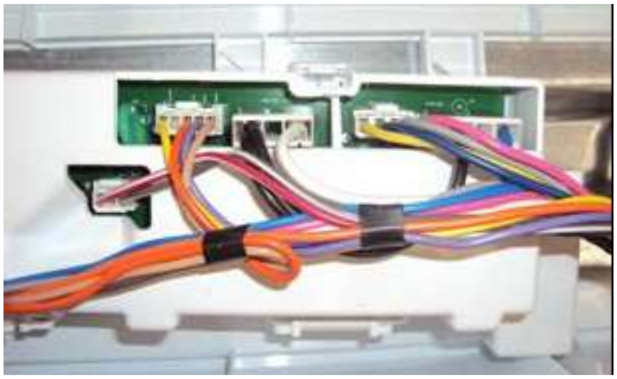
Desconecte el arnés que une las tarjetas para separar el ensamble copete.



Para quitar la base de la tarjeta control retire el par de tornillos que la sostiene de la cubierta superior.

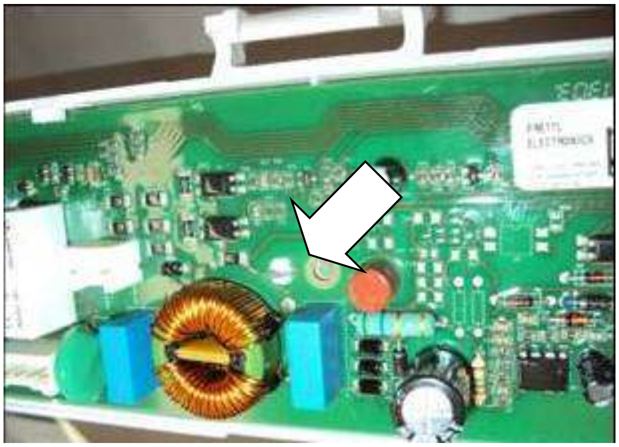


Una vez retirados los tornillos puede quitar con facilidad el total de los conectores que están en la tarjeta control.



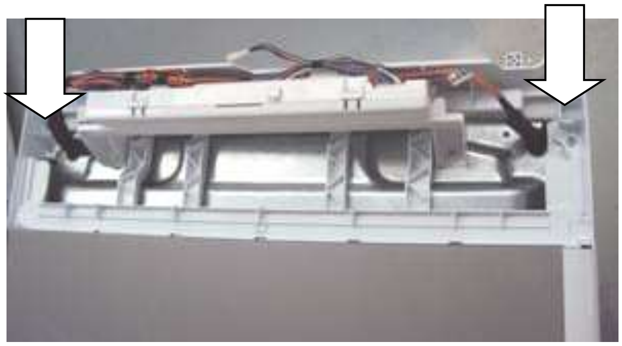
Una vez retirado el total de los conectores puede separar la cubierta de la base tarjeta para obtener la tarjeta control.

Al centro de la tarjeta hay un pin plástico que hay que presionar con unas pinzas de punta para que la tarjeta pueda salir.



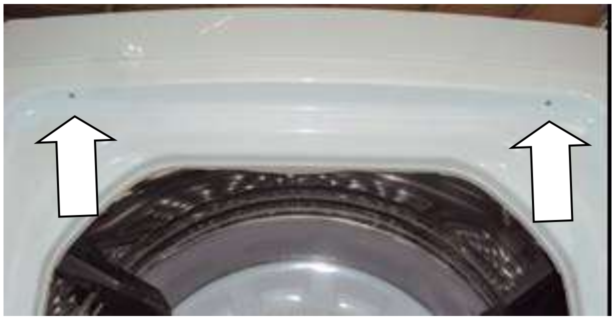
COVER

Retire el par de tornillos que se ubican a internamente y los costados de la cubierta.



También, abra la puerta de la secadora y retire el par tornillos que se localizan en la parte superior.

Levante la cubierta y quedara expuesto el protector cubierta.

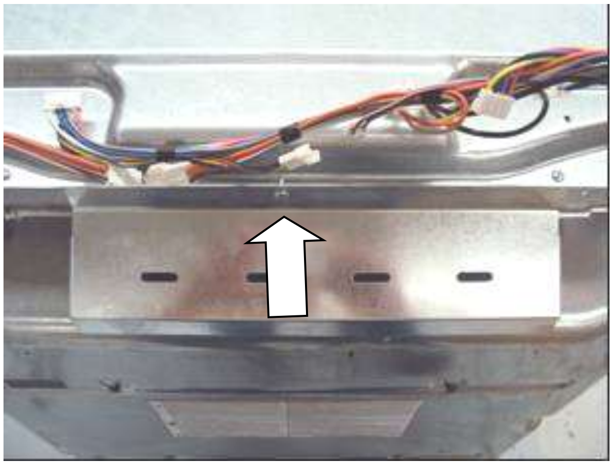


SHIELD TOP

Para retirar el protector cubierta retire los 8 tornillos que lo sujetan del los paneles.

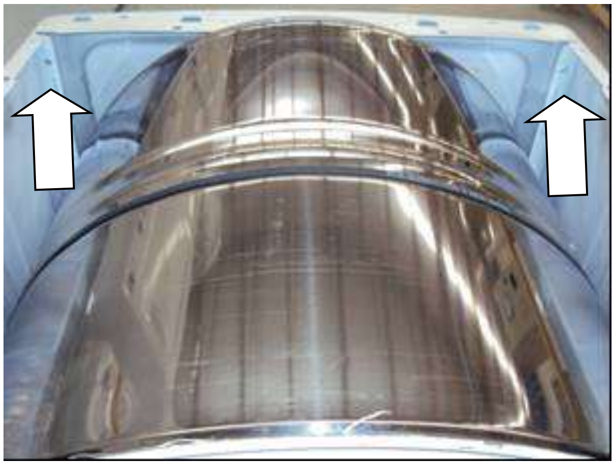
REAR HEAT SHIELD

Adicional retire el tornillo que sujeta el rear heat shield.



FRONT PANEL

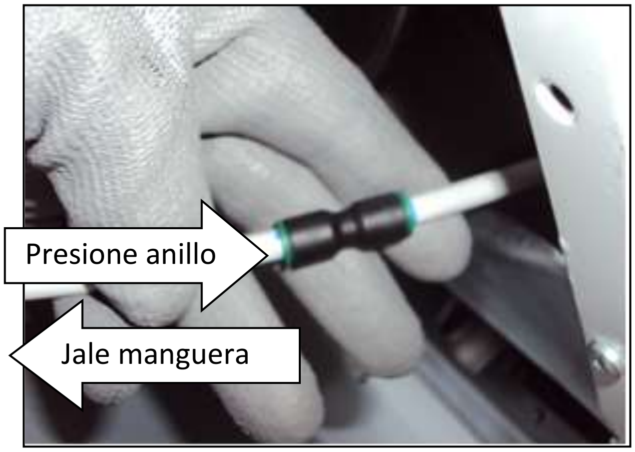
Para retirar el panel frontal quite el par que están a los costados en la parte superior interna del panel.



Una vez retirados sujete el panel para que no se zafe y se dañe.

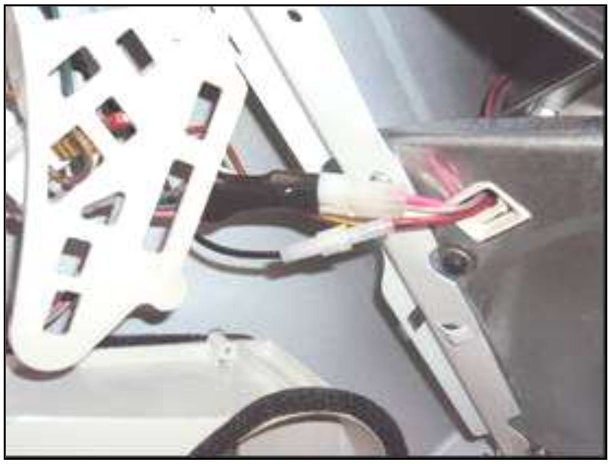
En la parte inferior derecha (solo en los modelos STEAM) hay una manguera que se tiene que desconectar.

Presione el anillo verde y estire la manguera.



Una vez esto se levante un poco el FRONT PANEL para zafarlo de las guías inferiores y gírelo hacia la izquierda.

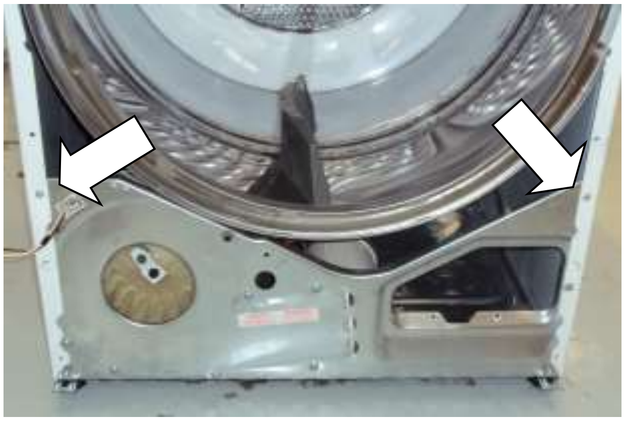
Para quitar por completo el panel frontal hay que desconectar el arnés del lado izquierdo. En total son 4 los conectores que se tienen que desconectar.



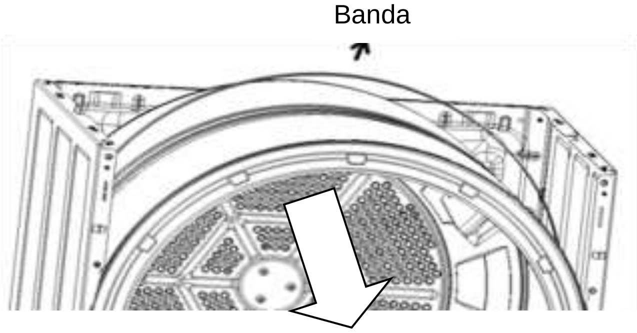
Al hacer este desensamble queda al descubierto por completo el tambor.

BANDA

Para tener más amplitud al momento de retirar banda y tambor quite el par de tornillos que se ubican en los costados de la secadora.

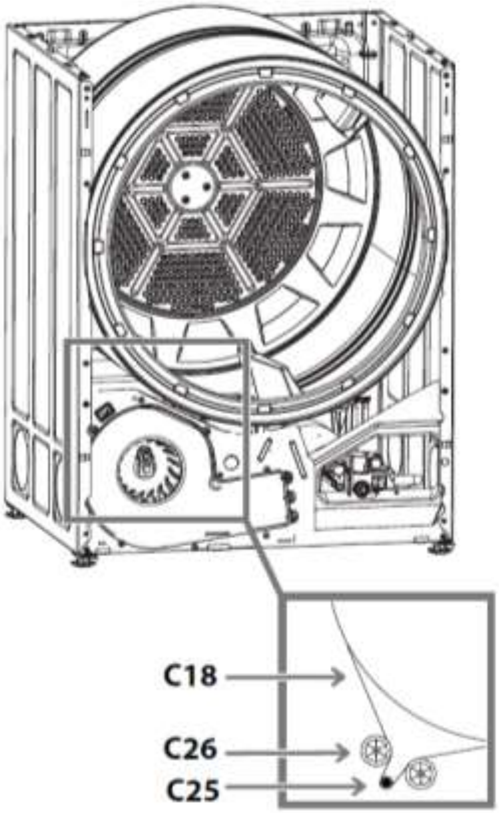


Para retirarla jale la banda y muévala hacia atrás al mismo tiempo que jala el tambor hacia la parte del frente hasta que la banda suelte el tambor.



Para instalar la banda:

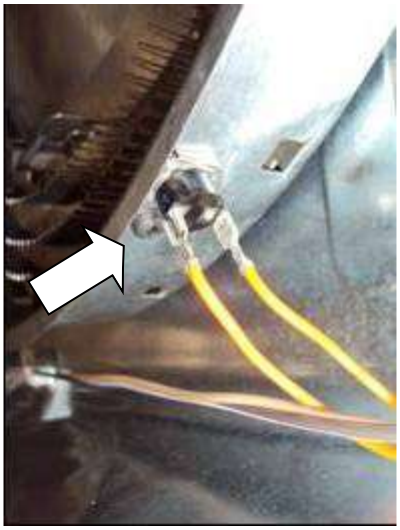
Una vez introducido el tambor y banda en el gabinete pase la banda C18 por la polea del motor C25 y asegúrese que la banda pase a través del par de poleas C26 como se muestra en la figura.



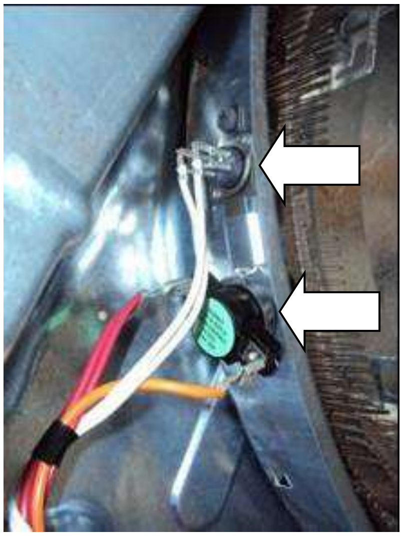
TERMOSTATOS Y TERMISTORES

Vienen integrados al arnés principal. Para quitarlos retire los tornillos que lo sujetan del Heater Housing.

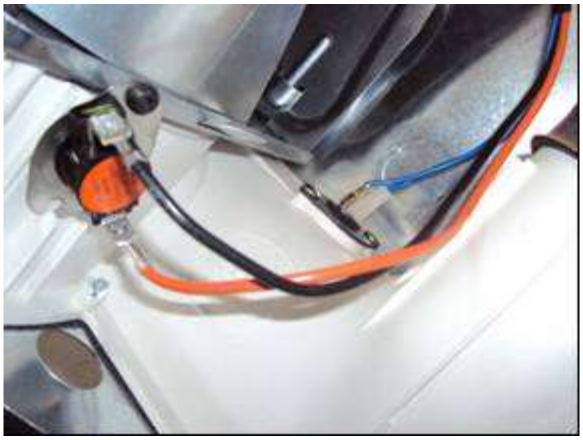
Hi-Llimit Thermostat

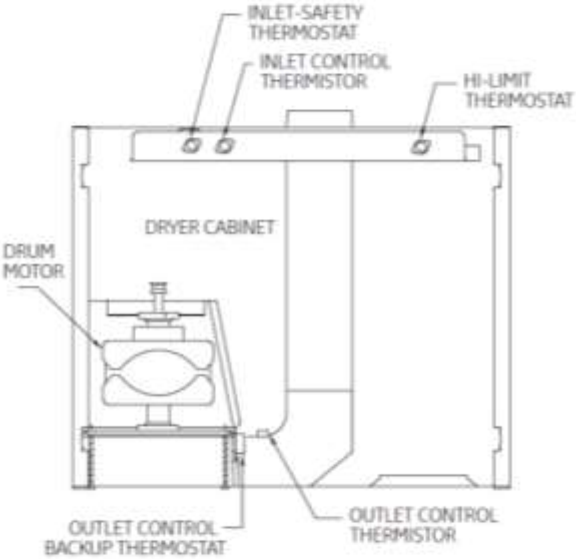


Inlet Control Therrmistor y Inlet-Safety Thermostat



Outlet Control Backup Thermostat y Outlet Control Thermistor





THERMOSTAT	TEMPERATURE ~ F		TEMPERATURE ~ C	
	OPEN	CLOSE	OPEN	CLOSE
OUTLET CONTROL BACKUP	165 ± 5	155 ± 5	74 ± 3	68 ± 3
INLET-SAFETY	210 ± 5	180 ± 7	99 ± 3	82 ± 4
HI-LIMIT	315 ± 10	250 ± 15	157 ± 6	121 ± 9

THERMISTORS RESISTANCE VALUES AT		
K OHMS	~ F	~ C
78 - 82	86	30
98 - 102	77	25
118 - 122	69	21

MICA HEATER (solo modelos eléctricos)

Para quitar en ensamble completo retire los termostatos y termistores que se ubican alrededor. También retire los 4 tornillos que sujetan el Heater Housing del Rear Panel.

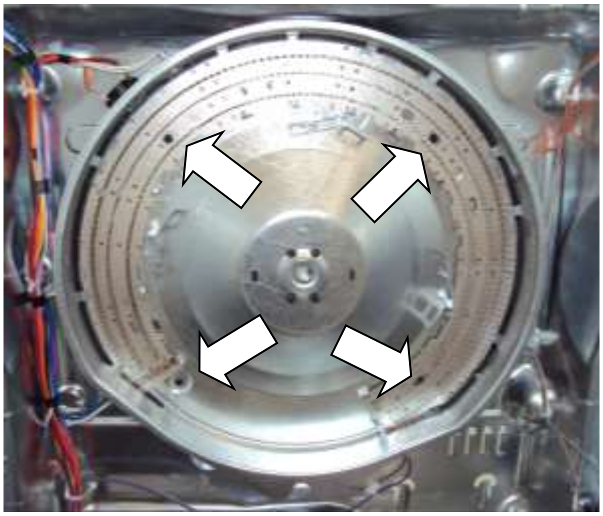
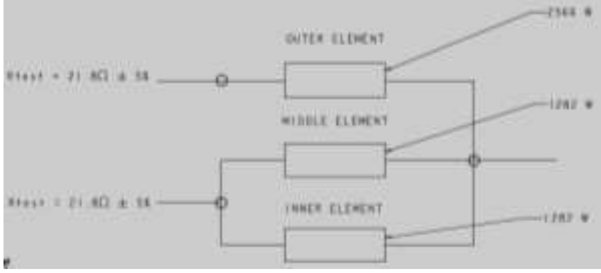
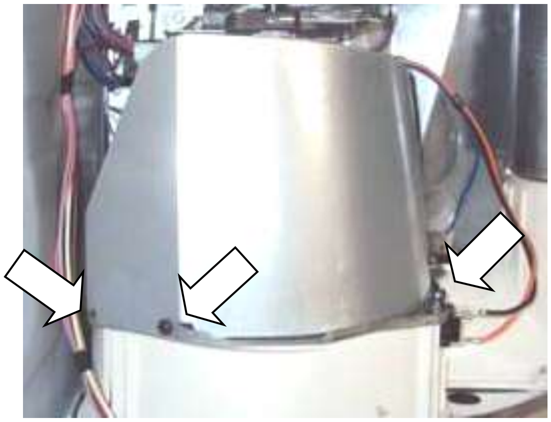


Diagrama eléctrico y valores de resistencia



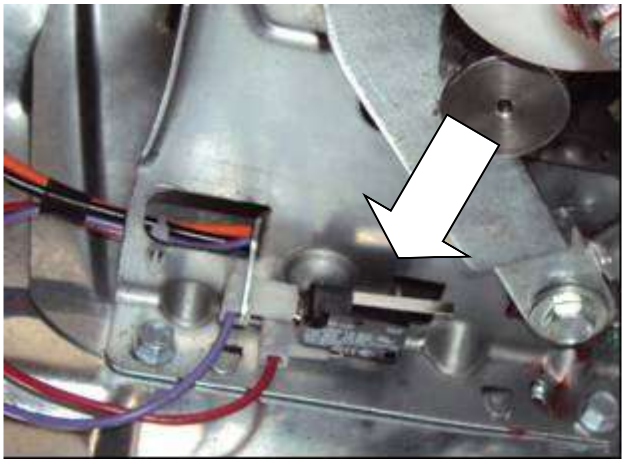
PROTECTOR MOTOR

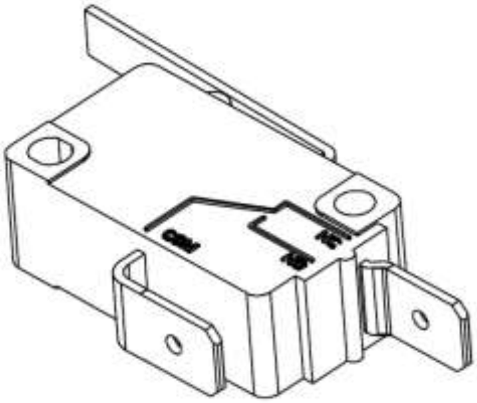
Para retirar quite el tornillo y desdoble las pestañas que están a los costados.



MICRO SWITCH IDLER

Se ubica en la parte posterior de motor por debajo de la polea motor.
Es un switch normalmente cerrado, cuando la poleas están tensas por la banda no hay contacto en el swicth, una vez que la banda se fractura el ensamble poleas cae en el switch lo activa, provocado que el motor deje de funcionar.

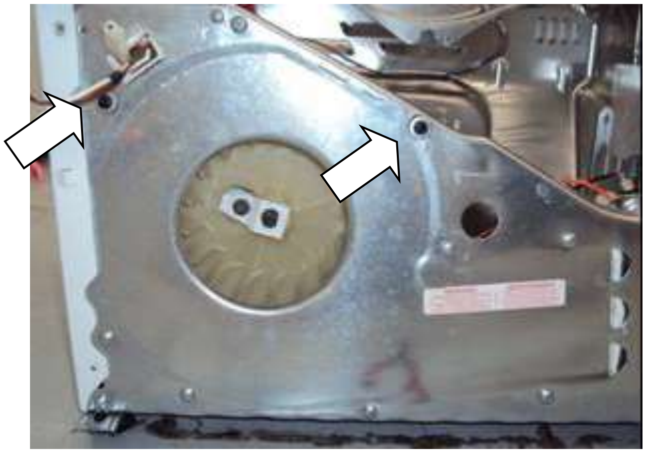




MOTOR

Para quitar el Ensamble Motor retire el par de tornillos que está en la parte frontal.

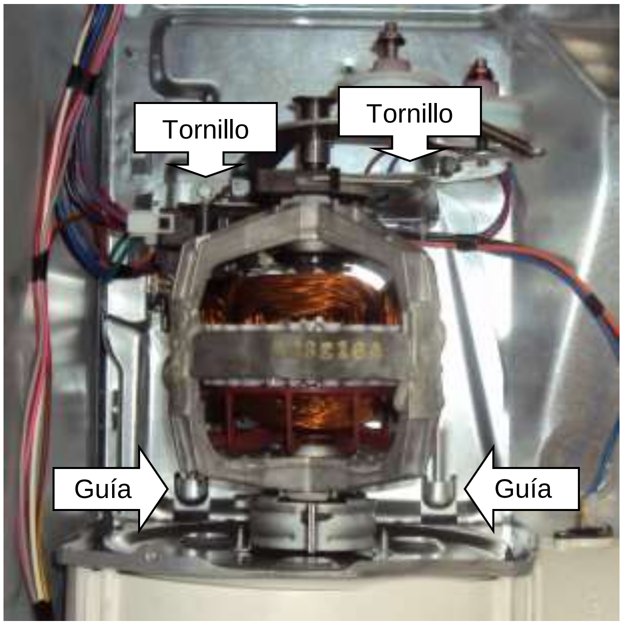
234D1843G001



También retire todos los conectores y terminales que lo unen al tomacorriente, termistores y tierra.

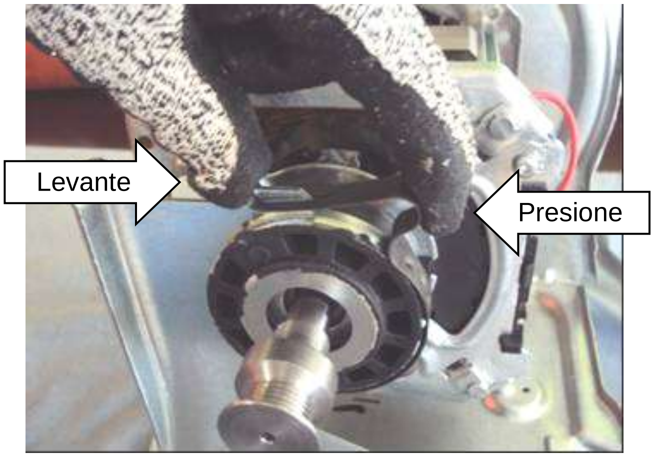
Así como el par de tornillos que sujetan el soporte motor del panel inferior.

Finalmente mueva el ensamble hacia atrás para que puedan salir de las guías para que pueda sacar el Ensamble Motor junto con las Poleas y el Ventilador.

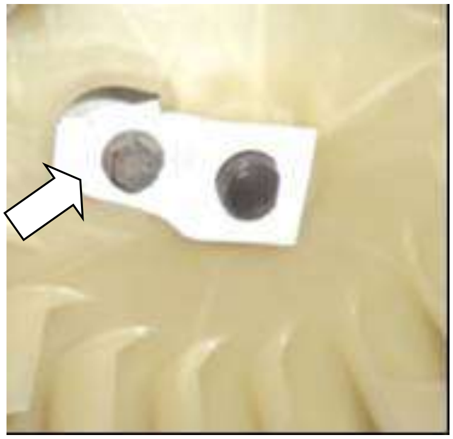


Una vez retirado el ensamble completo retire el **MOTOR CLIP.**

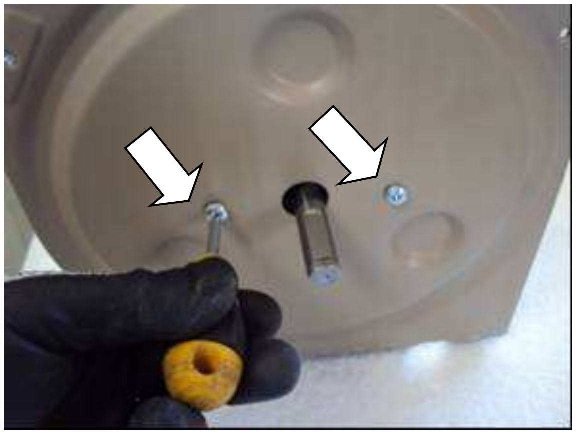
Para quitarlo presione con dedo índice y levante con el pulgar para que pueda salir.



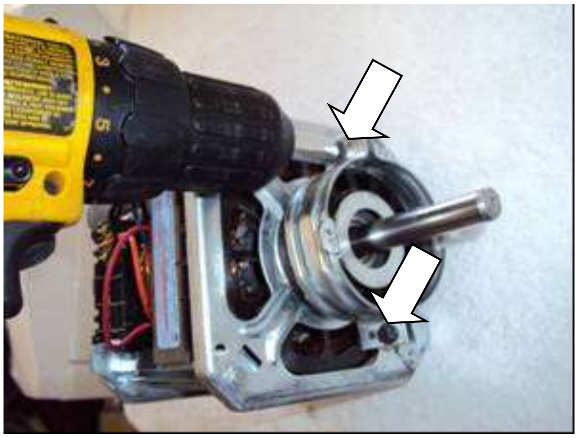
En el otro extremo quite el VENTILADOR, para esto retire el tornillo que sujeta Use dado 3/8 y matraca para retirar el tornillo que sujeta el BLOWER CLAMP.



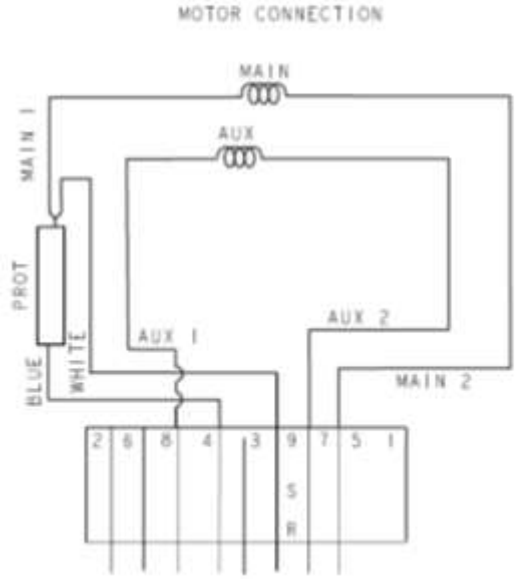
Después retire el par de tornillos que van en el MOTOR PLATE



Finalmente con un desarmador de caja de ¼ retire el par de tornillos que sujetan el STRAP MOTOR.



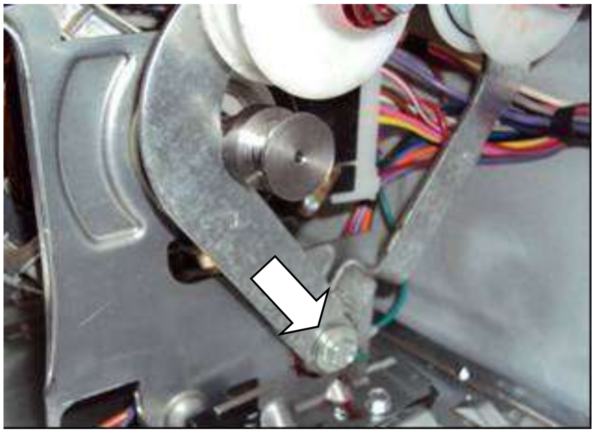
El motor es de ¼ 120V/60HZ



POLEAS

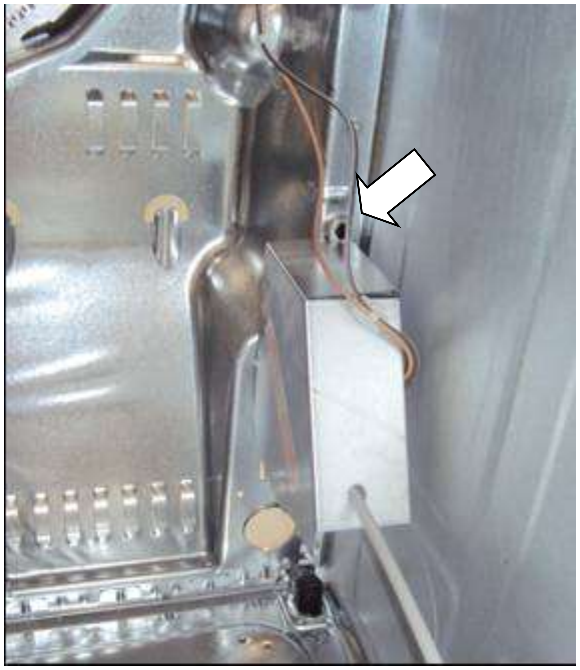
Para retirar el ensamble poleas retire el tornillo que las sujeta del BRACKET MOTOR.

Use dado ½ y matraca.

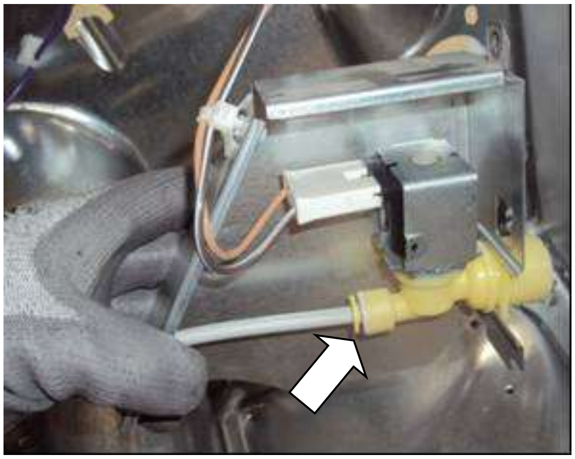


VALVULA DE AGUA (solo modelos STEAM)

Retire el tornillo del protector válvula.
Después levante el protector para que pueda salir de la guía que tiene en la parte inferior.



Para retirar la válvula del protector del tubo o manguera presione el anillo y jale el tubo.
Retire el cincho espada y deslice la válvula hacia la derecha para que salga del protector.



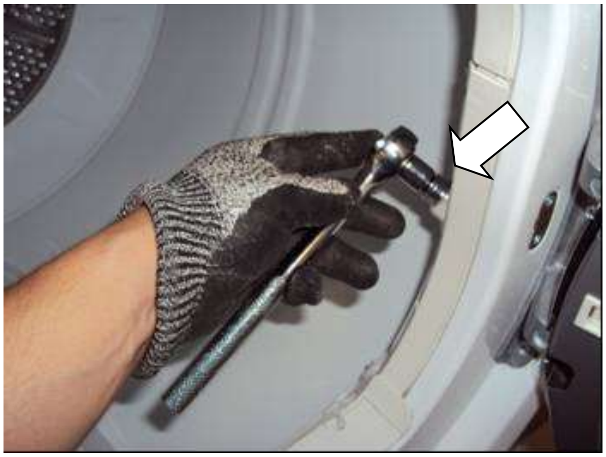
NOZZLE (solo modelos STEAM)

Se ubica en la parte interna de la secadora, al abrir la puerta del lado izquierdo.

Este componente se puede quitarse desde la parte frontal de la secadora sin necesidad de quitar el panel frontal.

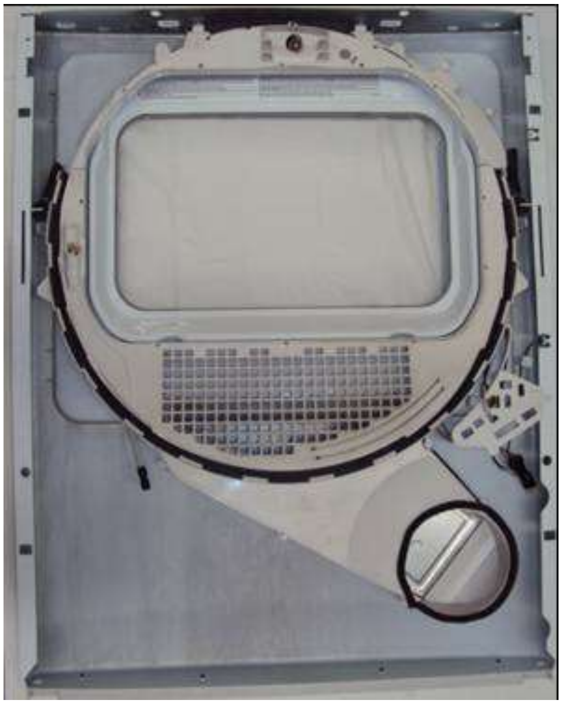
Se reemplazará en caso de taparse por contaminación de la malla que sirve de filtro.

Se recomienda cambiar y no limpiar cuando esto suceda. Quite con dado 7/16 y matraca.

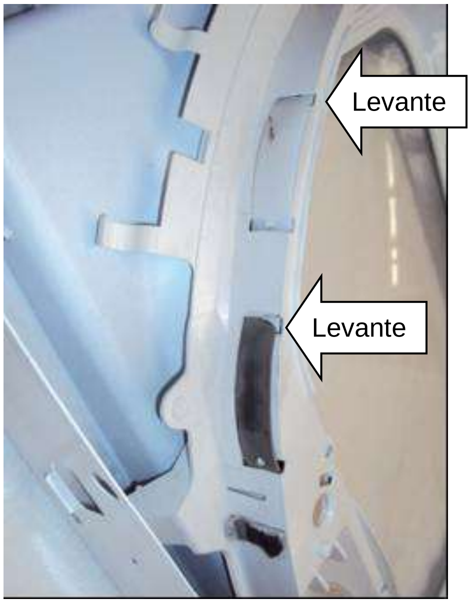


PANEL FRONTAL

Vista posterior del panel frontal.



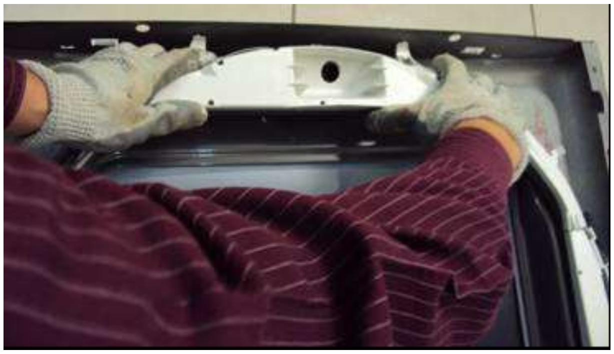
Los **BEARING SLIDES WHITE AND GREEN** se reemplazaran en caso de desgaste o deformidad. Levante la parte superior para retirarlos, en esta área tienen un diseño que permiten asegurase sólidamente.



TOP BEARING

La pieza no está atornillada, solo esta sujeta con clips y pestañas del top bering vs top panel.

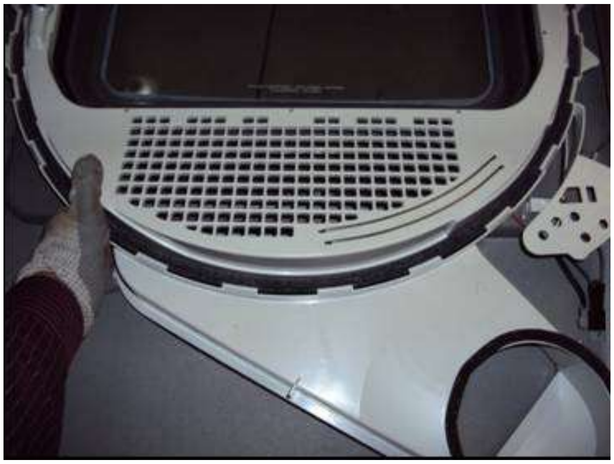
Para retirarlo sujetelo con las 2 manos de la parte superior (como se ilustra en la fotografía) y jale para que pueda zafarse del panel frontal, asegurese de que las pestaña a los lados esten libres para que pueda salir sin dificultad.



TRAP DUCT ASM

La pieza no esta atornillada, tambien está sujeta con clips y pestañas del mismo tarp duct y top bearin.

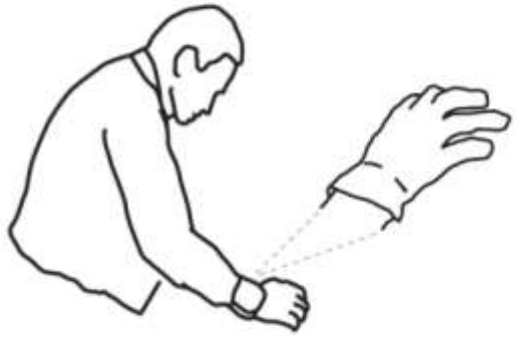
Para retiarlo sujetelo de un extremo y levante, asegurese de que las pestaña a los lados esten libres para que pueda salir sin dificultad.



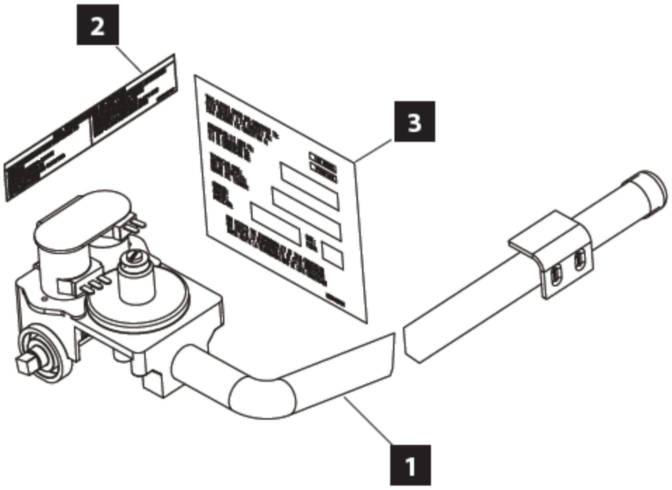
Convertion Kit gas LP (Propane)

WARNING: To prevent electric shock, disconnect electrical power supply to the dryer before beginning kit installation and turn off the gas supply.

Protect hands and arms from sharp edges when working inside cabinet.



Item	Description	WC254C1258A001
1	Valve and Pipe Assembly	1
2	Conversion rating plate	1
3	Responsibility label	1
4	Installation Instructions	1



4 Installation Instructions

This kit is to be used with gas dryer for which **WC254C1258A001** appears on rating plate located on the **upper left corner of the door opening.**

This kit was designed to be used with bottle gas (tanks). The gas must be equipped with a gas pressure regulator that provides gas between 11 inches water column maximum to 8 inches water column minimum at the connection to the dryer.

WARNING - This conversion kit shall be installed by qualified service agency in accordance with the manufacturer's instructions, National Fuel Gas Code, ANSI Z 223.1/NFPA54 installation codes and the requirements of the authorities having jurisdiction. The information in these instructions must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury or death. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

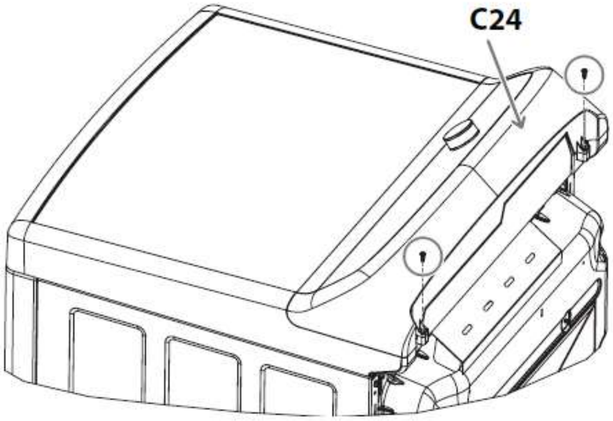
Conversion procedure

Step 1: ⚠***WARNING:*** Disconnect electrical power supply to dryer

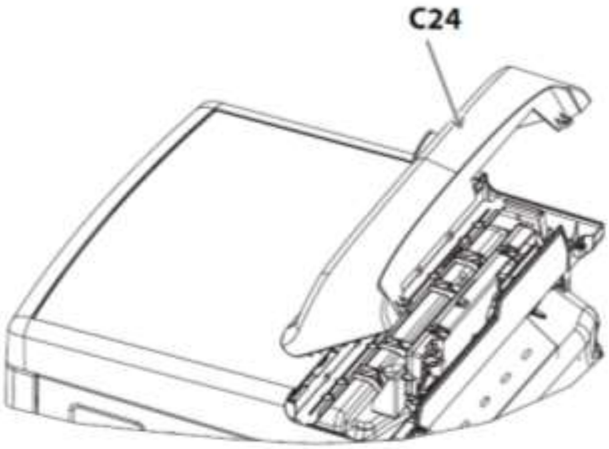
Step 2: ⚠***WARNING:*** Turn off the gas supply.

Step 3: Disconnect the gas line from the dryer.

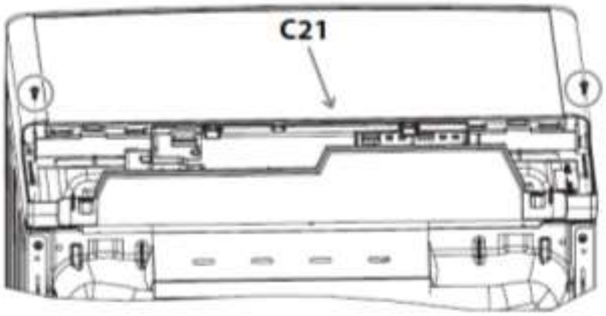
Step 4: Unscrew the 2 screws located in the back of the backsplash **C24**.



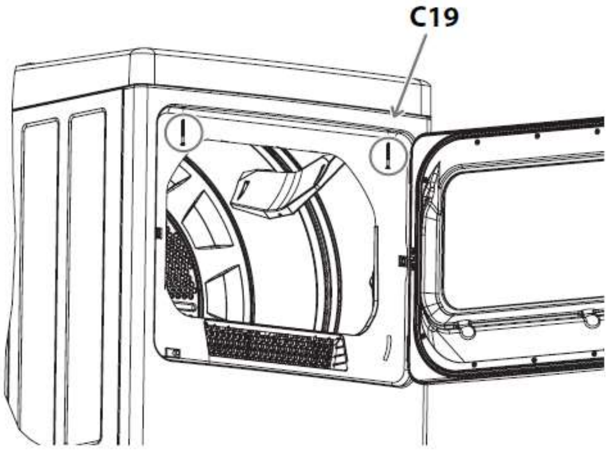
Step 5: Lift the backsplash **C24** and rotate it to unplug the harness



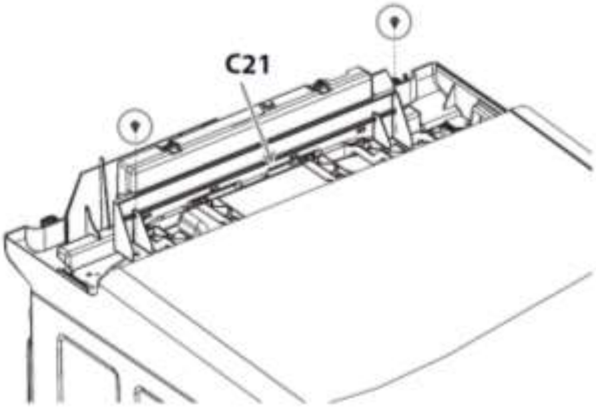
Step 6: Unscrew the 2 screws located in the back of the top cover **C21**.



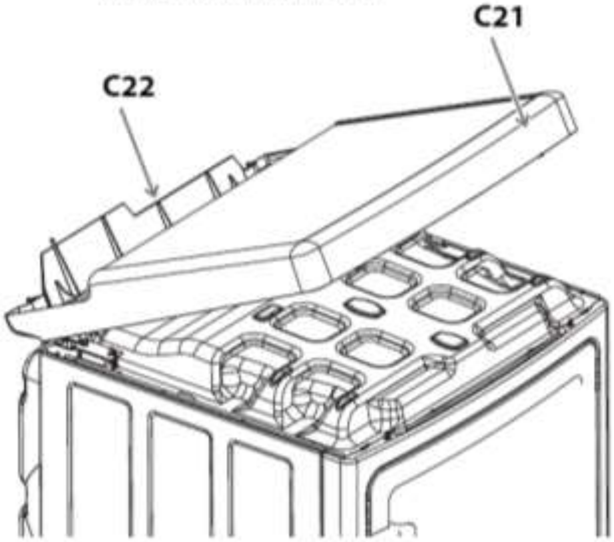
Step 7: Open the door then unscrew the 2 screws located in the front panel **C19**, at the bottom zone.



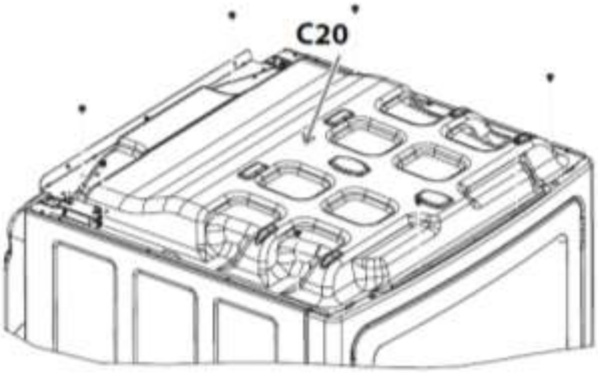
Step 8: Unscrew the 2 screws locate in the support board **C23**.



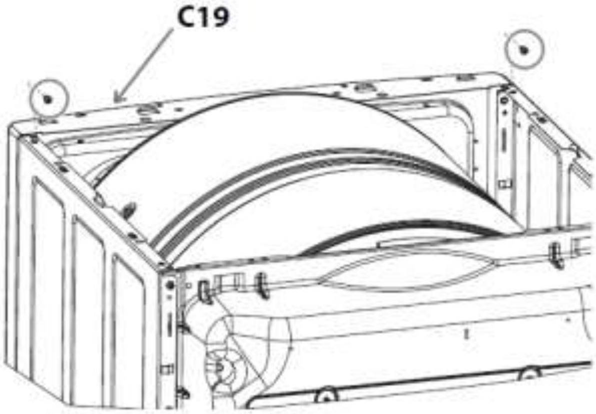
Step 9: Remove the top cover **C21**. Be careful not to hit the control board **C22**.



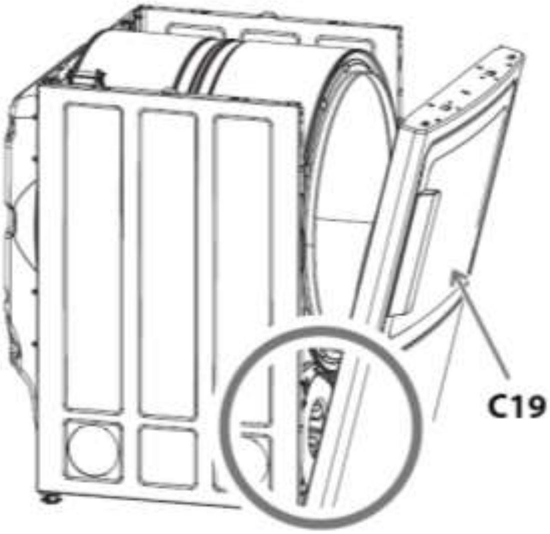
Step 10: Unscrew the 8 screws located in the top shield **C20** and remove the top shield **C20**.



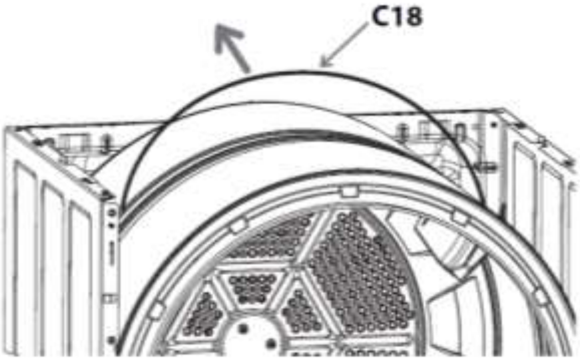
Step 11: Unscrew the 2 screws located in the back of the front panel **C19** (both sides)



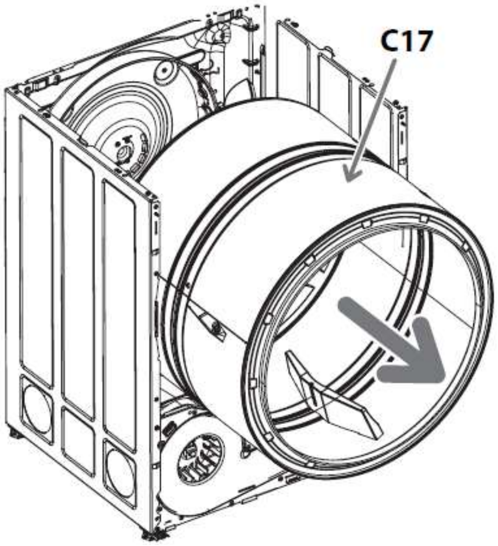
Step 12: Unplug the MIST located in the right side and the harness located in the left side and remove the front panel **C19.**



Step 13: Belt removal: Pull the belt **C18** and move it backward until release the drum **C17.**

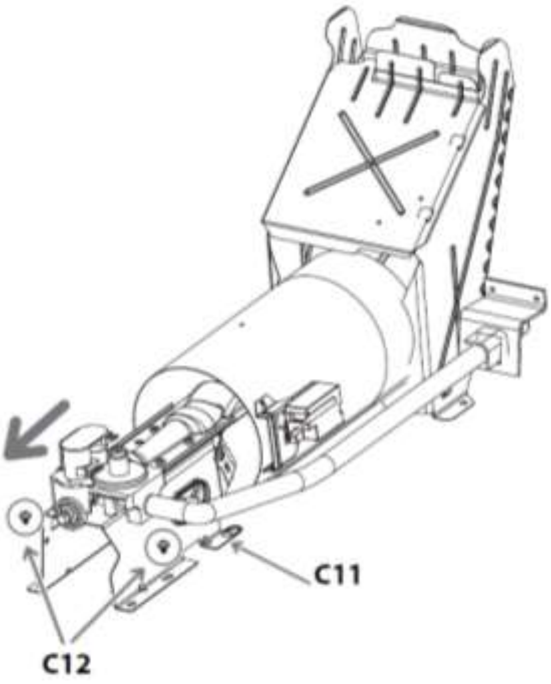


Step 14: Remove the drum **C17**.



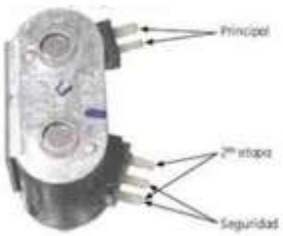
Step 15: The gas system is now accessible. Disconnect the wire harness from the gas valve **C5** and igniter **C8** and cut the wire tie that holds the harness and pipe.

Step 16: Unscrew the 2 screws **C12** from the bottom of the bracket **C11** and remove the entire gas system pulling it forward of the dryer.
Be careful not to damage the igniter C8.

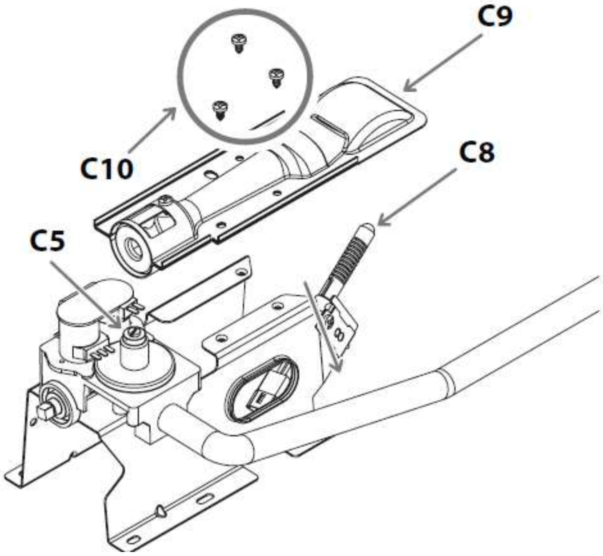


Bobina primaria entre terminales 1 y 2 (devanado de seguridad): 1,365 ohms
Bobina primaria entre terminales 1 y 3 (devanado 2da etapa): 560 ohms
Bobina secundaria (devanado principal): 1,325 ohms
Tercer bobina (devanado de media potencia): 1,000 ohms

Nota: La tolerancia para cada valor de resistencia es de alrededor de +/- 18%.

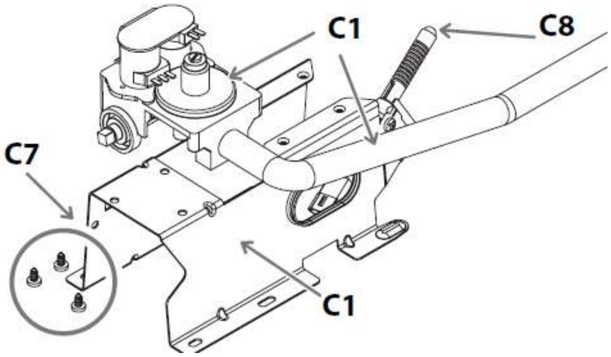


Step 17: Unscrew the 3 screws **C10 f**rom the top of the burner **C9.** Remove the burner **C9** from the assembly.
Be careful not to hit the igniter C8.



Step 18: Unscrew the 3 screws from the bottom of the valve **C5.** Remove the valve and pipe assembly **C1.**

Note: Save the original parts (valve and pipe assembly **C1)** in case if it is required to convert the dryer back to natural. Use the cap of the kit in order to keep the pipe **C6** clean of dust and other objects.

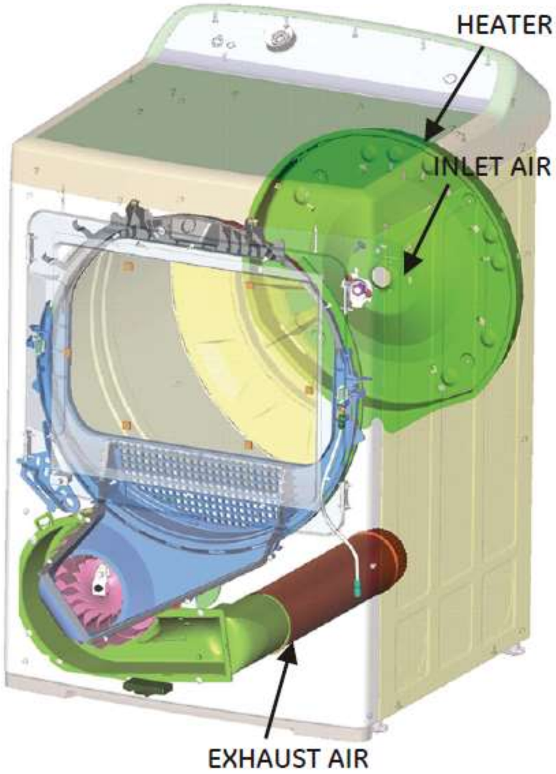


Air flow and seals

AIR FLOW AND SEALS

Proper air flow through the dryer is essential for normal operation of the temperature control and safety systems. Air is PULLED into the cabinet from rear and drawn up across the heaters located behind the drum. This hot air is PULLED through the drum rear, across the clothes load, through the lint trap and down the trap duct into the blower. From the blower the air is PUSHED out of the exhaust system.

Any air leaks between the air inlet and the blower, such as lower drum front left or trap duct to cabinet front sealing, will result in improper temperatures. The air being pulled down the trap duct to the drum outlet thermostat will be cooler than normal, giving this thermostat a false indication (delayed or no-trip). Leaks ahead of the blower will also reduce the volume of air across the heaters causing hot spots and possible premature failure.



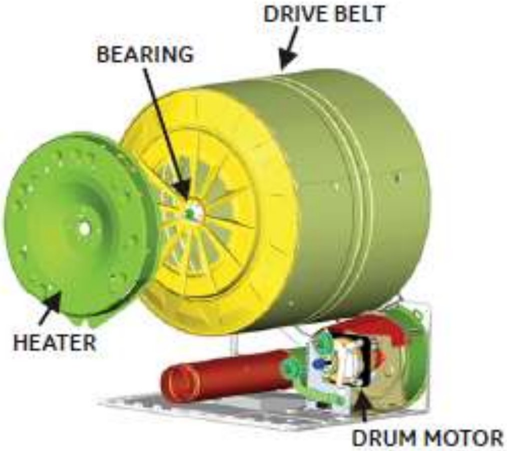
TRAP DUCT SEALING

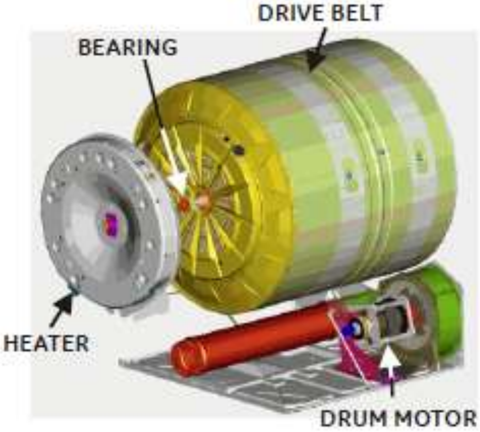
To inspect the trap duct for proper sealing, remove the lint filter and look down into the duct. With a light examine the trap duct on all sides where it meets the dryer front for voids in sealing. Leaks may be sealed with permagum.

* WHEN FLEXIBLE DUCT IS USED. WE STRONGLY RECOMMEND METALLIC FLEXIBLE DUCT.
* EXHAUST DUCT MUST BE 100mm (4 INCH) DIAMETER
* FOR SPECIFIC EXHAUST SPECIFICATION, REFER TO INSTALLATION INSTRUCTION SUPPLIED WITH YOUR DRYER.

DRIVE BELT NORMAL DRYER

The drum is rotated counterclockwise, as viewed from the front, at a speed of 47-51 RPM.
Belt tension is maintained by a spring-loaded idler pulley and driven by a pulley attached to the rear motor shaft.





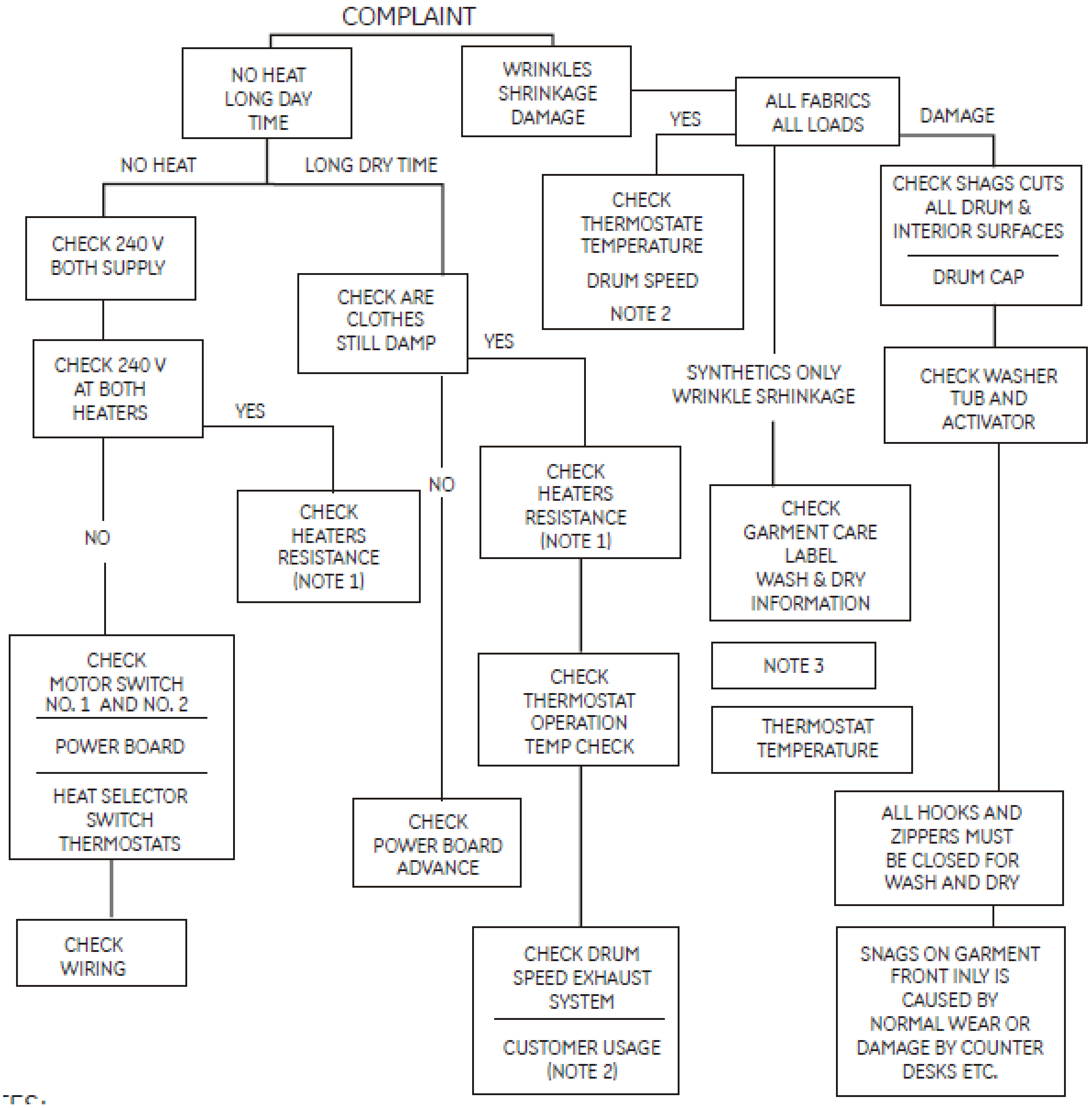
DRIVE BELT REVERSIBLE MODELS

The drum is rotated clockwise and counterclockwise, at a speed of 47-51 RPM. Belt tension is maintained by 2 arms and pulleys and driven by a pulley attached to the rear motor shaft.

STEAM SYSTEM (on some models)

Water is injected in the drum through a nozzle located at the front of the appliance. A water valve located at the bottom rear of the dryer provides water to nozzle. When servicing nozzle check for leaks and replace if necessary.

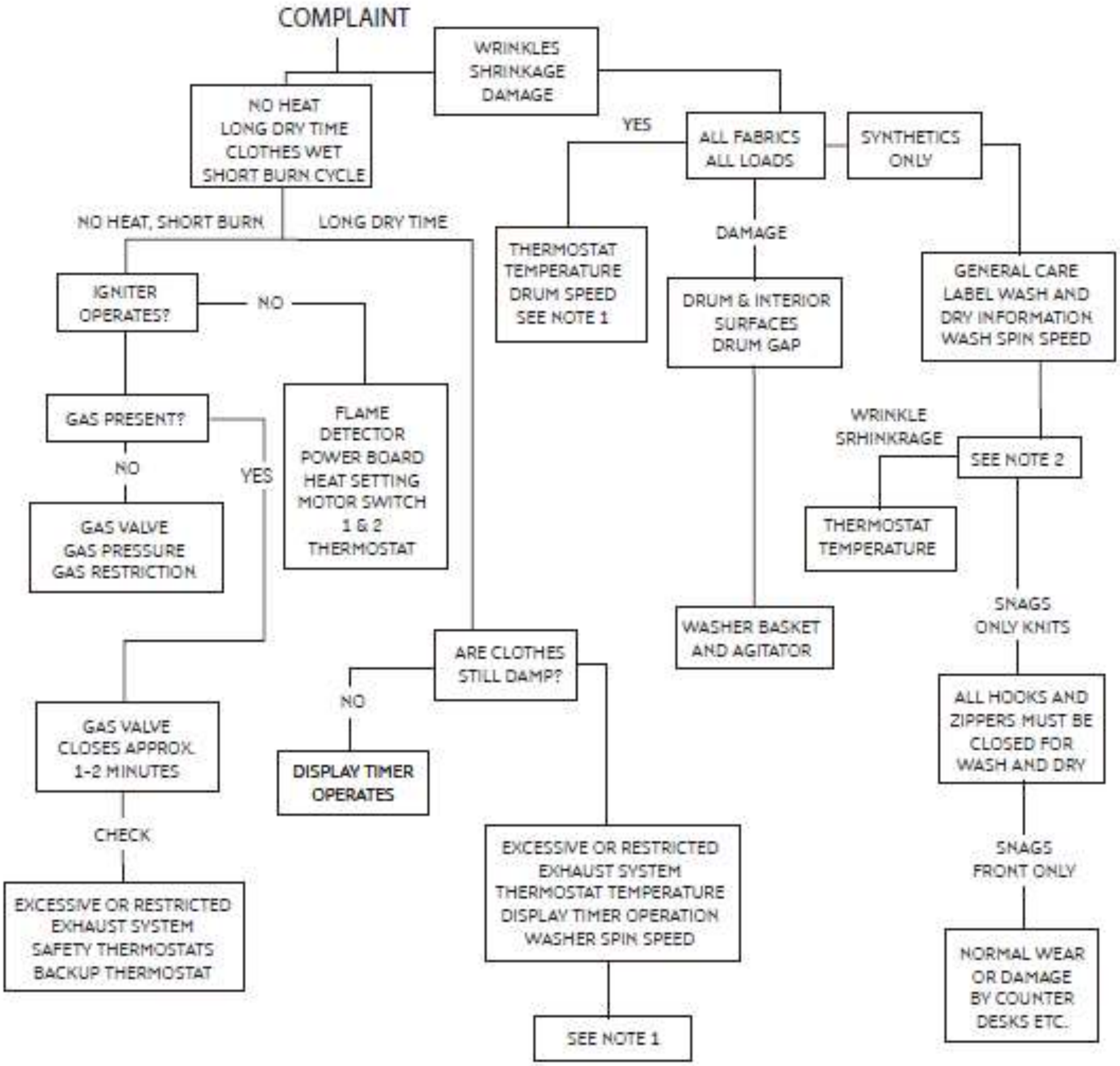
General Troubleshooting Guide


COMPLAINT
NO HEAT LONG DAY TIME
WRINKLES SHRINKAGE DAMAGE
NO HEAT
LONG DRY TIME
YES
ALL FABRICS ALL LOADS
DAMAGE
CHECK 240 V BOTH SUPPLY
CHECK ARE CLOTHES STILL DAMP
CHECK THERMOSTATE TEMPERATURE
DRUM SPEED
NOTE 2
CHECK SHAGS CUTS ALL DRUM & INTERIOR SURFACES
DRUM CAP
YES
CHECK 240 V AT BOTH HEATERS
YES
SYNTHETICS ONLY WRINKLE SRHINKAGE
CHECK WASHER TUB AND ACTIVATOR
NO
CHECK HEATERS RESISTANCE (NOTE 1)
CHECK HEATERS RESISTANCE (NOTE 1)
NO
CHECK GARMENT CARE LABEL WASH & DRY INFORMATION
NOTE 3
CHECK MOTOR SWITCH NO. 1 AND NO. 2
POWER BOARD
HEAT SELECTOR SWITCH THERMOSTATS
CHECK THERMOSTAT OPERATION TEMP CHECK
THERMOSTAT TEMPERATURE
CHECK POWER BOARD ADVANCE
ALL HOOKS AND ZIPPERS MUST BE CLOSED FOR WASH AND DRY
CHECK WIRING
CHECK DRUM SPEED EXHAUST SYSTEM
CUSTOMER USAGE (NOTE 2)
SNAGS ON GARMENT FRONT INLY IS CAUSED BY NORMAL WEAR OR DAMAGE BY COUNTER DESKS ETC.

NOTES:

1. Heater element is shown on wiring schematic (on reverse side of this sheet). Check for infinite resistance between any heater terminal and dry cabinet. Heater failure could result from low air flow caused by improper sealing, kinked or excessive ducting or excessive line voltage.
2. Other factors contributing to long dry times, or clothes condition: load size, large bulky items, ambient temperature, room size (if not exhausted outdoor). washer spin speed, washer rinse temperature, gas supply (restrictions), gas pressure.
3. Small loads: Less than 3 lbs. if not treated with destaticizer could develop a static charge if over dried and cling to drum surface (no tumble) causing wrinkles, shrinkage, or melting. Use a fabric softener (washer or dryer) or add 2 large bath towels to act as a buffer when drying.

GAS DRYER


COMPLAINT
WRINKLES SHRINKAGE DAMAGE
NO HEAT LONG DRY TIME CLOTHES WET SHORT BURN CYCLE
YES
ALL FABRICS ALL LOADS
SYNTHETICS ONLY
NO HEAT, SHORT BURN
LONG DRY TIME
THERMOSTAT TEMPERATURE DRUM SPEED SEE NOTE 1
DAMAGE
GENERAL CARE LABEL WASH AND DRY INFORMATION WASH SPIN SPEED
IGNITER OPERATES?
NO
DRUM & INTERIOR SURFACES DRUM GAP
GAS PRESENT?
FLAME DETECTOR POWER BOARD HEAT SETTING MOTOR SWITCH 1 & 2 THERMOSTAT
WRINKLE SRHINKRAGE
SEE NOTE 2
NO
YES
GAS VALVE GAS PRESSURE GAS RESTRICTION
THERMOSTAT TEMPERATURE
SNAGS ONLY KNITS
WASHER BASKET AND AGITATOR
ARE CLOTHES STILL DAMP?
NO
ALL HOOKS AND ZIPPERS MUST BE CLOSED FOR WASH AND DRY
GAS VALVE CLOSES APPROX. 1-2 MINUTES
DISPLAY TIMER OPERATES
CHECK
SNAGS FRONT ONLY
EXCESSIVE OR RESTRICTED EXHAUST SYSTEM THERMOSTAT TEMPERATURE DISPLAY TIMER OPERATION WASHER SPIN SPEED
EXCESSIVE OR RESTRICTED EXHAUST SYSTEM SAFETY THERMOSTATS BACKUP THERMOSTAT
NORMAL WEAR OR DAMAGE BY COUNTER DESKS ETC.
SEE NOTE 1

NOTES:

1. Heater element is shown on wiring schematic (on reverse side of this sheet).
Check for infinite resistance between any heater terminal and dry cabinet. Heater failure could result from low air flow caused by improper sealing, kinked or excessive ducting or excessive line voltage.
2. Other factors contributing to long dry times, or clothes condition: load size, large bulky items, ambient temperature, room size (if not exhausted outdoor). washer spin speed, washer rinse temperature, gas supply (restrictions), gas pressure.
3. Small loads: Less than 3 lbs. if not treated with destaticizer could develop a static charge if over dried and cling to drum surface (no tumble) causing wrinkles, shrinkage, or melting.
Use a fabric softener (washer or dryer) or add 2 large bath towels to act as a buffer when drying.

Service mode

How to enter to service mode and navigate:
From idle state, press and hold the "Keylock" and "Drying temp" keys for 5 seconds to enter service mode.
Upon entering the service mode, the Control shall be in test selection mode and display the first test number (t01). Rotating the knob counter clockwise (CCW) shall decrement the test number in the display.
Rotating the knob clockwise (CW) shall increment the test numbers in the display.
Once the test number is selected, pressing "Start/Pause" shall begin the selected test.
During a test, pressing "Start/Pause" key shall terminate that test and bring the Control to the test selection mode (test number is displayed on the display).

SERVICE MODE

SERVICE MODE TEST		SEQUENCE	
T01	Dryer model code	Start/Pause	Display UI models - See Model Selector table below
		Start/Pause	Returns to service mode screen
T02	Software Version	Start/Pause	Display User Interface software version
		Drying temp	Toogle between the User Interface and the Control board software version
		Start/Pause	Returns to service mode screen
T03	Fail code test	Start/Pause	Display the error codes - See Error Codes table below
		Start/Pause	Clear highlighted error code from machine.
			Returns to service mode screen
T04	Outlet thermistor test	Start/Pause	Switch on both drum motor and outer coil (Electric models)
			Switch on both drum motor and inner coil (Gas models)
			Display the Outlet thermistor temperature in Fahrenheit degrees
		Start/Pause	Switch off all the loads
			Returns to service mode screen
T05	Inlet thermistor test	Start/Pause	Switch on both drum motor and inner coil
			Display the Inlet thermistor temperature in Fahrenheit degrees
		Start/Pause	Switch off all the loads
			Returns to service mode screen
T06	Moisture Sensor test	Start/Pause	Display the voltage read from the moisture sensor
			Returns to service mode screen
T07	Door test	Start/Pause	Display "dc" if door is closed
			Returns to service mode screen
T08	Water Valve test	Start/Pause	Switch on both drum motor and water valve.
			Display "on"
		Drying temp	Toogle the water valve state.
			Display "on" or "off" according to the water valve state
		Start/Pause	Switch off all the loads
			Returns to service mode screen
T09	Data Flash check	Start/Pause	Display "Er" if a data flash error is detected
			Display "FC" if data flash works properly
		Start/Pause	Returns to service mode screen
T10	Drum test		Switch on the drum motor in CCW direction
			Toogle the drum motor direction.
			Display "CW" or "CCW" according to the drum direction
		Start/Pause	Returns to service mode screen

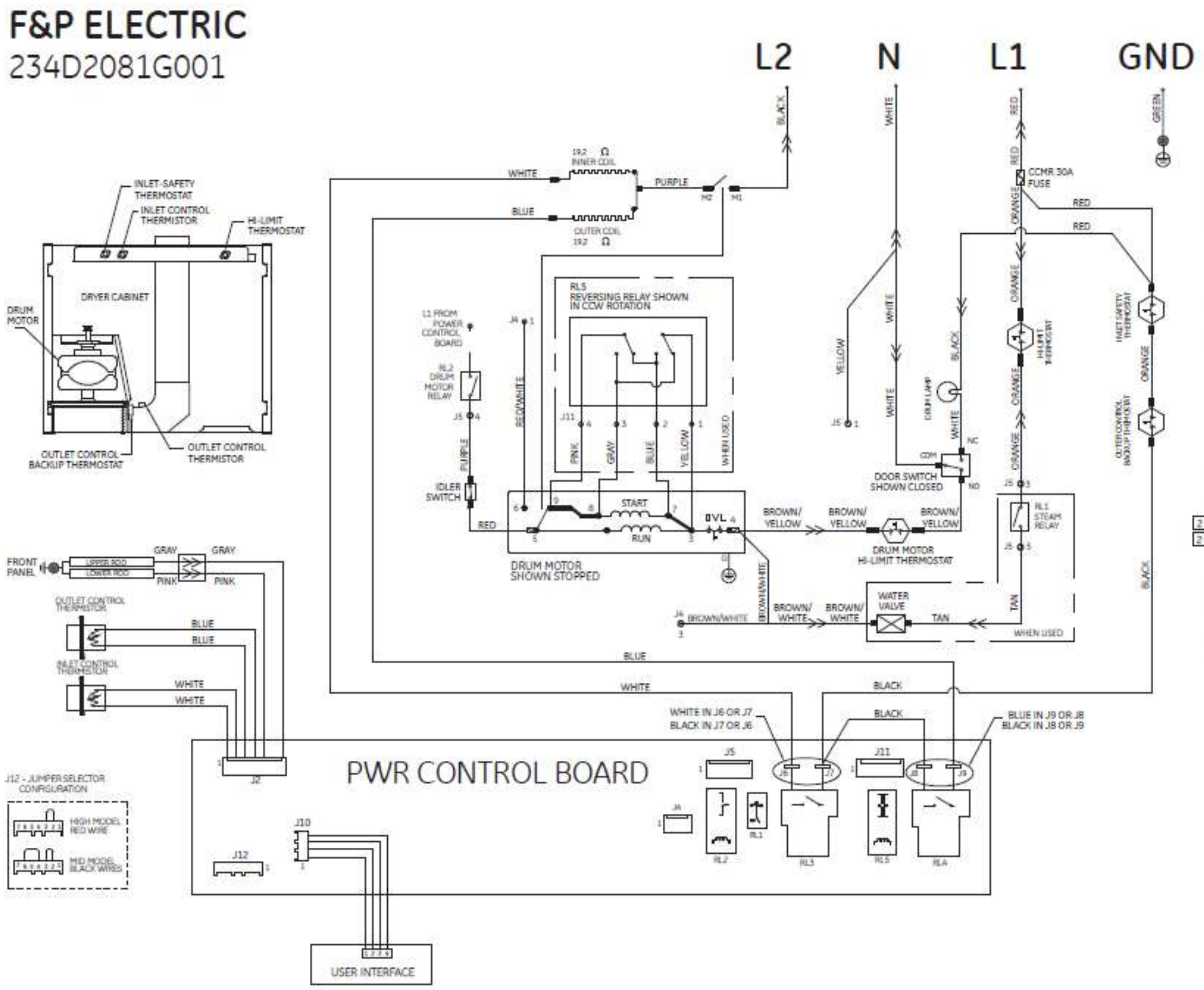
ERROR CODES

Error Code	Component, System, or Test	Description
E0	All	No error or All error erase.
E1	Inlet Thermistor	Inlet Thermistor short circuit
E2	Outlet Thermistor	Outlet Thermistor short circuit
E3	Inlet Thermistor	Inlet Thermistor Open circuit
E4	Outlet Thermistor	Outlet Thermistor Open circuit
E5	Inlet thermistor	Inlet thermistor signal fail
E6	Outlet thermistor	Outlet thermistor signal fail
E7, 151	Drum	Drum failure
E8	Door	Door switch signal fail
E9	Sensor rod	Sensor rod short circuit
EA	Sensor rod	Sensor rod open circuit
EB	Sensor rod	Sensor rod signal is static
EC	Flash memory	Programming end erasure endurance near to the limit
ED, 157	Model	Model not defined
105	UI communication bus	There is no communication between control board and User Interface

MODEL CODES

Heat source	Spec	Dryer model
Electric	High	1E
Electric	Mid	2E
Gas	High	1G
Gas	Mid	2G

Wiring diagram



DANGER: DISCONNECT ELECTRIC POWER SUPPLY BEFORE SERVICING

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

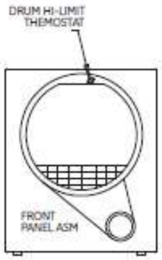
NOTES:

──	CONNECTION ON PWR CONTROL BOARD
──	GANGED CENTRIFUGAL SWITCH
━━	CONNECTION IN MOTOR ONLY FOR MID MODELS
☒	POINT TO POINT TERMINAL
>>	CONNECTOR JUNCTION
●	SCREWS (BONDING AND GROUNDING)

	THERMOSTAT	TEMPERATURE – F		TEMPERATURE – C	
		OPEN	CLOSE	OPEN	CLOSE
	OUTLET CONTROL BACKUP	165 ± 5	155 ± 5	74 ± 3	68 ± 3
2	INLET-SAFETY	210 ± 5	180 ± 7	99 ± 3	82 ± 4
2	HI-LIMIT	315 ± 10	250 ± 15	157 ± 6	121 ± 9

THERMISTORS RESISTANCE VALUES AT		
K OHMS	– F	– C
78 - 82	86	30
98 - 102	77	25
118 - 122	69	21

ALL RELAYS SHOWN IN POSITION WITH DRYER IN POWER OFF STATE



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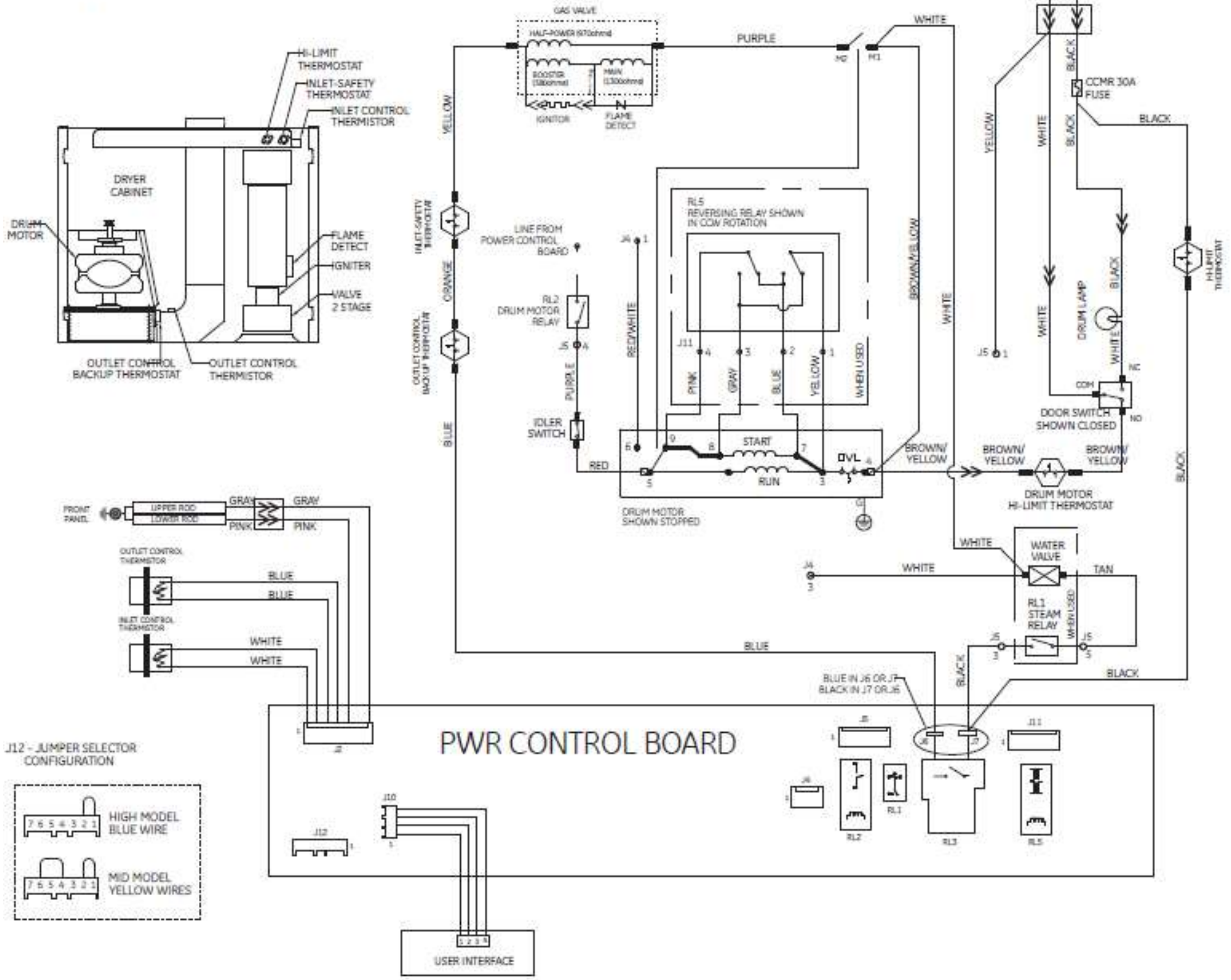


DANGER: DISCONNECT ELECTRIC POWER SUPPLY BEFORE SERVICING

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

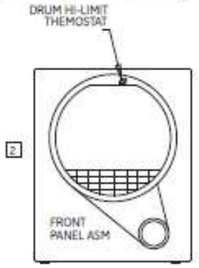
NOTES:

- CONNECTION ON PWR CONTROL BOARD
- GANGED CENTRIFUGAL SWITCH
- CONNECTION IN MOTOR ONLY FOR MID MODELS
- ▭ POINT TO POINT TERMINAL
- >> CONNECTOR JUNCTION
- ● SCREWS (BONDING AND GROUNDING)

THERMOSTAT	TEMPERATURE °F		TEMPERATURE °C	
	OPEN	CLOSE	ABIERTO	CERRADO
OUTLET CONTROL BACKUP	165 ± 5	155 ± 5	74 ± 3	68 ± 3
INLET-SAFETY	300 ± 8	260 ± 12	149 ± 4	127 ± 7
HI-LIMIT	315 ± 10	250 ± 15	157 ± 6	121 ± 9

THERMISTORS RESISTANCE VALUES AT		
K OHMS	°F	°C
78 - 82	86	30
98 - 102	77	25
118 - 122	69	21

ALL RELAYS SHOWN IN POSITION WITH DRYER IN POWER OFF STATE



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